

AFS: 42-003-00032

Air ICIS: PAACH 0004200300032



United States Steel Corporation
Mon Valley Works
P. O. Box 878
Mailstation #100
Dravosburg, PA 15034

Scott D. Buckiso
General Manager
Mon Valley Works

Jim Hagedorn ✓
RECEIVED

March 31, 2015

APR 1 2015

Ms. Jayme Graham
Air Quality Program – ACHD
301 39th Street
Pittsburgh, PA 15201

Air Protection Division

SUBJECT: U. S. Steel Mon Valley Works Clairton Plant
Certification of Compliance
Title V Operating Permit #0052 General Condition III.12

Dear Ms. Graham:

U. S. Steel Mon Valley Works Clairton Plant Title V Operating Permit #0052 General Condition III.12 requires an annual Certification of Compliance submittal. General Condition III.12 states that *"The permittee submit on an annual basis, certification of compliance with all terms and conditions contained in this permit, including emission limitations, standards, or work practices..."* This submission is for the reporting period covering January 1 through December 31, 2014.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. If you have any questions regarding this submission, please contact Coleen Davis at (412) 233-1015.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott D. Buckiso".

Scott D. Buckiso
General Manager – Mon Valley Works

cc: EPA Region III

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.G.1.t	Restrictions	§2103.12.h.6; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Direct Measurement & Records Review	Y	C	
V.G.1.t.1	Restrictions		Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Records Review	Y	C	
V.G.1.t.2	Restrictions		Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Records Review	Y	C	
V.G.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks before the close of business on the 30th calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test before the close of business on the 60th calendar days following the completion of the performance test according to §63.10(d)(2).	Records Review	Y	C	
V.G.1.v	Restrictions	§2105.21.f.2, §2105.21.h.4 and §2103.12.a.2.B	Emissions from Coke Battery B combustion stack shall not exceed the emission limitations in Table V-I-1.	Administrative Requirement	Y	C	
V.G.1.v	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.G.1.v	Restrictions		PM 12.40 54.33		Y	C	
V.G.1.v	Restrictions		PM-10 12.40 54.33		Y	C	
V.G.1.v	Restrictions		PM2.5 12.40 54.33		Y	C	
V.G.1.v	Restrictions		SO2 91.5 400.95		Y	C	
V.G.1.v	Restrictions		A year is defined as any consecutive 12-month period				
V.G.2.a	Testing	§2103.12.h.1; §2108.02.e and Second Consent Decree, 6/24/1993	The permittee shall have PM, PM2.5, and PM10 emissions stack tests performed on the combustion stack of Coke Battery B at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.G.1.q above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Records Review	Y	C	

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V.G.2.b	Testing	§2108.02.b and §2108.02.e	The permittee shall have sulfur dioxide (SO ₂) emissions stack tests performed on the combustion stacks of Coke Battery B at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.G.1.v above. SO ₂ emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department at least 45 days prior to the test dates.	Records Review	Y	C	
V.G.2.c	Testing	§2103.12.h.1; §2108.02.b and §2108.02.e	The permittee shall perform an evaluation for NO _x on the Battery B combustion stack to develop emission factors that can be applied to quantify NO _x emissions. This evaluation shall include an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NO _x . Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Records Review	Y	C	
V.G.2.d	Testing	§2103.12.h.1; §2108.02.b and §2108.02.e	The permittee shall perform emissions tests and evaluations for CO and VOC on the Battery B combustion stack to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Records Review	Y	C	
V.G.2.e	Testing	40 CFR Part 60, Appendix B, Specification 2 and §2108.03	The permittee shall have a Relative Accuracy Test Audit (RATA) performed for the nitrogen oxide (NO _x) CEMS as specified in 40 CFR Part 60, Appendix B, Specification 2. The RATA shall be performed annually to evaluate the acceptability of the NO _x CEMS data. The permittee shall submit the RATA protocol to the Department at least 45 days prior to the test dates.	Records Review	Y	C	
V.G.2.f	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Records Review	Y	C	
V.G.3.a	Monitoring		The permittee shall:	Administrative Requirement	Y	C	
V.G.3.a.1	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A	Records Review	Y	C	

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V.G.3.a.2	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Records Review	Y	C	
V.G.3.a.3	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Records Review	Y	C	
V.G.3.a.4	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Records Review	Y	C	
V.G.3.b	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Condition V.G.3.c below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Records Review	Y	C	
V.G.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Records Review	Y	C	
V.G.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Records Review	Y	C	
V.G.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Records Review	Y	C	
V.G.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.G.3.b above.	Records Review	Y	C	
V.G.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emissions inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Records Review	Y	C	
V.G.3.c	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements:	Administrative Requirement	Y	C	

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V.G.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A to 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Records Review	Y	C	
V.G.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Records Review	Y	C	
V.G.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR 63.	Records Review	Y	C	
V.G.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63, the accuracy of the pressure measurement device upon request of the certified observer;	Records Review	Y	C	
V.G.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;	Records Review	Y	C	
V.G.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Training	Y	C	
V.G.3.d	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Records Review	Y	C	
V.G.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63;	Records Review	Y	C	
V.G.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Records Review	Y	C	

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V.G.3.e	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Records Review	Y	C	
V.G.3.f	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.G.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.G.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.G.3.g	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(h)	For a flare installed to meet the requirements of Condition V.G.1.d and V.G.1.e above:	Administrative Requirement	Y	C	
V.G.3.g.1	Monitoring		Compliance with the provisions in Condition V.G.1.k above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Records Review	Y	C	
V.G.3.g.2	Monitoring		Compliance with the provisions in Condition V.G.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Records Review	Y	C	
V.G.3.h	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.G.3.i	Monitoring	§2103.12.i; §2103.12.h.6; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Records Review	Y	C	
V.G.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Records Review	Y	C	
V.G.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Records Review	Y	C	
V.G.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Records Review	Y	C	

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V.G.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Records Review	Y	C	
V.G.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Records Review	Y	C	
V.G.3.i.6	Monitoring		Schedule and procedures for the daily washing of baffles	Records Review	Y	C	
V.G.3.j	Monitoring	§2103.12.i; §2103.12.h.6; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in §63.7331(j).	Process Knowledge & Physical Inspection	Y	C	
V.G.3.k	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Records Review	Y	C	
V.G.3.l	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Records Review	Y	C	
V.G.3.m	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(j)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.G.3.m.1) through V.G.3.m.5) below:	Administrative Requirement	Y	C	
V.G.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Process Knowledge & Physical Inspection	Y	C	
V.G.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60;	Records Review	Y	C	
V.G.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS;	Records Review	Y	C	
V.G.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Records Review	Y	C	
V.G.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) above using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comn.
				Method	Y/ N	Type C/I	
V.G.3.n	Monitoring	§2103.12.i; §2103.12.h.6; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Physical Inspection	Y	C	
V.G.3.o	Monitoring	§2103.12.i; §2103.12.h.6; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Records Review	Y	C	
V.G.3.p	Monitoring	§2103.12.i; §2103.12.h.6; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.G.1.t.1) and V.G.1.t.2) by meeting the requirements in Conditions V.G.3.p.1) and V.G.3.p.2) below:	Administrative Requirement	Y	C	
V.G.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Records Review	Y	C	
V.G.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.G.3.m above	Records Review	Y	C	
V.G.4.a	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.311(f)	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under below through V.G.6.e below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.G.4.a.1	Recordkeeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Records Review	Y	C	
V.G.4.a.2	Recordkeeping		If the permittee is required under Condition V.G.6.c below to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point during the implementation period:	Administrative Requirement	Y	C	

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V.G.4.a.2.a	Recordkeeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required under Condition IV.27.b.1) above;	Records Review	Y	C	
V.G.4.a.2.b	Recordkeeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Records Review	Y	C	
V.G.4.a.2.c	Recordkeeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required in Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Records Review	Y	C	
V.G.4.a.2.d	Recordkeeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) above; and	Records Review	Y	C	
V.G.4.a.3	Recordkeeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.G.1.a through V.G.1.e above.	Records Review	Y	C	
V.G.4.a.4	Recordkeeping		Records specified in Condition V.G.6.g below regarding the basis of each malfunction notification.	Records Review	Y	C	
V.G.4.b	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	
V.G.4.b.1	Recordkeeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Records Review	Y	C	
V.G.4.b.2	Recordkeeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Records Review	Y	C	
V.G.4.b.3	Recordkeeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.G.4.c	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.G.4.c.1	Recordkeeping		Records described in §63.10(b)(2)(vi) through (xi).	Records Review	Y	C	
V.G.4.c.2	Recordkeeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Records Review	Y	C	
V.G.4.c.3	Recordkeeping		Previous (that is, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).	Records Review	Y	C	
V.G.4.c.4	Recordkeeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	

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V.G.4.d	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(c)	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Records Review	Y	C	
V.G.4.e	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(d)	The permittee shall keep the records required in Conditions V.G.3.p above and V.G.4.k below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Records Review	Y	C	
V.G.4.f	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7343(a)	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Records Review	Y	C	
V.G.4.g	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Records Review	Y	C	
V.G.4.h	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7343(c)	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Records Review	Y	C	
V.G.4.i	Recordkeeping	§2103.12.j; 63.7335(a)	For each by-product coke oven battery, the permittee must demonstrate continuous compliance with the operation and maintenance requirements in V.G.3.i above by adhering at all times to the plan requirements and recording all information needed to document conformance.	Records Review	Y	C	
V.G.4.j	Recordkeeping	§2103.12.j; 63.7335(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in V.G.3.i onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Records Review	Y	C	
V.G.4.k	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.G.6.k below, by maintaining records that document conformance with requirements in V.G.6.k.1) through V.G.6.k.5) below.	Records Review	Y	C	
V.G.5.a	Reporting	§2103.12.k; §2109.03 and Enforcement Order 202.E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Records Review	Y	C	
V.G.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Records Review	Y	C	
V.G.5.a.1.a	Reporting		Coal charged, in tons;	Records Review	Y	C	
V.G.5.a.1.b	Reporting		Coke produced, in tons;	Records Review	Y	C	
V.G.5.a.1.c	Reporting		Total coke oven gas produced; in MMCF;	Records Review	Y	C	
V.G.5.a.1.d	Reporting		Quench water used, in gallons;	Records Review	Y	C	
V.G.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.G.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Records Review	Y	C	
V.G.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Records Review	Y	C	
V.G.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Records Review	Y	C	
V.G.5.a.2.a	Reporting		The batteries affected;	Records Review	Y	C	
V.G.5.a.2.b	Reporting		The starting and ending dates and times;	Records Review	Y	C	
V.G.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Records Review	Y	C	
V.G.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Records Review	Y	C	
V.G.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Records Review	Y	C	
V.G.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Records Review	Y	C	
V.G.5.b	Reporting	§2103.12.k; Enforcement Order No. 161, July 23, 1990	No later than twenty (20) days after the end of each month, a written report of a summary of the following for Coke Battery B combustion stack continuous opacity monitoring system, during each such month shall be submitted to the Department:	Records Review	Y	C	
V.G.5.b.1	Reporting		The monthly average percent availability (on-line time), based on total minutes of coke operations and total minutes available;	Records Review	Y	C	
V.G.5.b.2	Reporting		The daily percentage available;	Records Review	Y	C	
V.G.5.b.3	Reporting		The number of days on which there was less than 100% availability;	Records Review	Y	C	
V.G.5.b.4	Reporting		For each of the coke oven combustion stack visible emission standards set forth in §2105.21.f.3 & f.4, the total number of hours for the month, and the number of hours each day, during which an exceedance of such standard was measured by such continuous opacity monitor;	Records Review	Y	C	
V.G.5.b.5	Reporting		The number and nature of tests, calibrations, and any other quality assurance activities performed; and	Records Review	Y	C	
V.G.5.b.6	Reporting		<u>The dates, times and results of all such activities.</u>	Records Review	Y	C	
V.G.5.c	Reporting	§2103.12.k; §2103.12.h.6; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Records Review	Y	C	
V.G.5.c.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in Condition V.G.5.d below.	Records Review	Y	C	
V.G.5.c.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in Condition V.G.5.d below; and	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Compliance
				Method	Y/N	Type C/I	
V.G.5.c.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Records Review	Y	C	
V.G.5.d	Reporting	§2103.12.k; §2103.12.h.6; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR §302.6.	Records Review	Y	C	
V.G.5.e	Reporting	§2103.12.k; §2103.12.h.6; §63.310(d)	In order for the provisions of §63.10(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Records Review	Y	C	
V.G.5.e.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Records Review	Y	C	
V.G.5.e.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Records Review	Y	C	
V.G.5.f	Reporting	§2103.12.k; §2103.12.h.6; §63.310(e)	Within 14 days of the notification made in accordance with condition §63.310(d), or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Records Review	Y	C	
V.G.5.f.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Records Review	Y	C	
V.G.5.f.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Records Review	Y	C	
V.G.5.g	Reporting	§2103.12.k; Consent Order Agreement (COA), Third Amendment, July 6, 2011, Condition V.b	The permittee shall submit to the Department a Semi-Annual Deviation Repots for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Battery B.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.G.5.h	Reporting	§2103.12.k; §2103.12.h.6; §63.7336(a)	The permittee shall report each instance in which each emission limitation in Conditions V.G.1.t and V.G.1.u was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.G.6.k, V.G.6.l and V.G.6.m. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.G.5.l through V.G.5.p below.	Records Review	Y	C	
V.G.5.i	Reporting	§2103.12.k; §2103.12.h.6; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Records Review	Y	C	
V.G.5.i.1	Reporting		Consistent with §63.6(e) and 63.7(c)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Records Review	Y	C	
V.G.5.i.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Records Review	Y	C	
V.G.5.j	Reporting	§2103.12.k; §2103.12.h.6; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Records Review	Y	C	
V.G.5.k	Reporting	[§2103.12.k; §2103.12.h.6; §63.7340(d)	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Records Review	Y	C	
V.G.5.l	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(a)	Unless the Department has approved a different schedule, the permittee must submit quarterly compliance reports for battery stacks to the Department according to the requirements in Conditions V.G.5.l.1) and V.G.5.l.2) below:	Records Review	Y	C	
V.G.5.l.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Records Review	Y	C	
V.G.5.l.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Records Review	Y	C	
V.G.5.m	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(b)	Each quarterly report must provide information on compliance with the emission limitations for battery stacks in V.G.1.t above. The reports must include the information in Conditions V.G.5.n.1) through V.G.5.n.3) below, and as applicable, Conditions V.G.5.n.4) through V.G.5.n.8) be'	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.G.5.n	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.G.5.n.1) through V.G.5.n.3) below, and as applicable, Conditions V.G.5.n.4) through V.G.5.n.8) below.	Records Review	Y	C	
V.G.5.n.1	Reporting		Company name and address.	Records Review	Y	C	
V.G.5.n.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Records Review	Y	C	
V.G.5.n.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Records Review	Y	C	
V.G.5.n.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Records Review	Y	C	
V.G.5.n.5	Reporting		If there were no deviations from the continuous compliance requirements in V.G.3.p above for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Records Review	Y	C	
V.G.5.n.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Records Review	Y	C	
V.G.5.n.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.G.5.n.4), V.G.5.n.7)a) and V.G.5.n.7)b) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.G.5.n.7.a	Reporting		The total operating time of each affected source during the reporting period.	Records Review	Y	C	
V.G.5.n.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.G.5.n.8	Reporting		For each deviation from an emission limitation occurring at an affected source where the permittee is using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.G.5.n.4), V.G.5.n.8)a) through V.G.5.n.8)l) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.G.5.n.8.a	Reporting		The date and time that each malfunction started and stopped.	Records Review	Y	C	
V.G.5.n.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Records Review	Y	C	
V.G.5.n.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Records Review	Y	C	
V.G.5.n.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.G.5.n.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Records Review	Y	C	
V.G.5.n.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Records Review	Y	C	
V.G.5.n.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Records Review	Y	C	
V.G.5.n.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Records Review	Y	C	
V.G.5.n.8.i	Reporting		A brief description of the process units.	Records Review	Y	C	
V.G.5.n.8.j	Reporting		A brief description of the continuous monitoring system.	Records Review	Y	C	
V.G.5.n.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Records Review	Y	C	
V.G.5.n.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Records Review	Y	C	
V.G.5.o	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comm.
				Method	Y/ N	Type C/I	
V.G.5.p	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department	Records Review	Y	C	
V.G.6.a	Work Practices	§2105.06; RACT Plan 234	Coke Oven Battery B shall be properly maintained and operated at all times according to good engineering and air pollution control practices.	Engineering Judgment/ Records Review	Y	C	
V.G.6.b	Work Practices	§2103.12.h.6; §63.306	The permittee shall comply with the provisions of the applicable workpractice requirements in Site level Condition IV.27.a above.	Check Condition	Y	C	
V.G.6.c	Work Practices	§2103.12.h.6; §63.310(b)	The permittee shall develop and implement according to Condition V.G.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan.	Records Review	Y	C	
V.G.6.d	Work Practices	§2103.12.h.6; §63.310(c)	During a period of startup, shutdown, or malfunction the permittee shall:	Administrative Requirement	Y	C	
V.G.6.d.1	Work Practices		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Records Review	Y	C	
V.G.6.d.2	Work Practices		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Records Review	Y	C	
V.G.6.e	Work Practices	§2103.12.h.6; §63.310(d)	In order for the provisions of Condition V.G.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee:	Administrative Requirement	Y	C	
V.G.6.e.1	Work Practices		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.G.6.e.2	Work Practices		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.G.6.e.1) above was not made, an explanation of why no such notification was made.	Records Review	Y	C	
V.G.6.f	Work Practices	§2103.12.h.6; §63.310(e)	Within 14 days of the notification made under Condition V.G.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Records Review	Y	C	
V.G.6.f.1	Work Practices		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Records Review	Y	C	
V.G.6.f.2	Work Practices		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Records Review	Y	C	
V.G.6.g	Work Practices	§2103.12.h.6; §63.310(f)	The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.G.6.e above.	Records Review	Y	C	
V.G.6.h	Work Practices	§2103.12.h.6; §63.310(g)	To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements in §63.310 and is made available for inspection at reasonable times when requested by the Department.	Administrative Requirement	Y	C	
V.G.6.i	Work Practices	§2103.12.h.6; §63.310(h)	The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan:	Administrative Requirement	Y	C	
V.G.6.i.1	Work Practices		Does not address a startup, shutdown, or malfunction event that has occurred;	Administrative Requirement	Y	C	
V.G.6.i.2	Work Practices		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Administrative Requirement	Y	C	
V.G.6.i.3	Work Practices		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Administrative Requirement	Y	C	
V.G.6.j	Work Practices	§2103.12.h.6; §63.310(i)	If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:	Administrative Requirement	Y	C	
V.G.6.j.1	Work Practices		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Administrative Requirement	Y	C	
V.G.6.j.2	Work Practices		Be used in any compliance determination under §63.309; or	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comm.
				Method	Y/ N	Type C/I	
V.G.6.j.3	Work Practices		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Condition IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Condition IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Administrative Requirement	Y	C	
V.G.6.k	Work Practices	§2103.12.h.6; §63.7294(a)	The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include <u>measures and procedures to:</u>	Records Review	Y	C	
V.G.6.k.1	Work Practices		Train topside workers to identify soaking emissions that require corrective actions.	Records Review	Y	C	
V.G.6.k.2	Work Practices		Damper the oven off the collecting main prior to opening the standpipe cap.	Records Review	Y	C	
V.G.6.k.3	Work Practices		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, <u>and emissions that result from incomplete coking.</u>	Records Review	Y	C	
V.G.6.k.4	Work Practices		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the <u>emissions.</u>	Records Review	Y	C	
V.G.6.k.5	Work Practices		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the <u>emissions.</u>	Records Review	Y	C	
V.G.6.l	Work Practices	§2103.12.h.6; §63.7294(b)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.G.6.k above. [§2103.12.h.6; §63.7294(b)]	Administrative Requirement	Y	C	
V.G.6.m	Work Practices	§2103.12.h.6; §63.7310(a)	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and <u>malfunction as defined in §63.2. [§2103.12.h.6; §63.7310(a)]</u>	Records Review	Y	C	
V.G.7.a	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.H.1.a	Restrictions	[<input type="checkbox"/> §2105.21.e]	The permittee shall not operate, or allow to be operated, Battery B coke ovens unless there is installed on the battery a pushing emission control system baghouse which is designed to reduce fugitive emissions from pushing to the minimum attainable through the use of BACT, nor shall the permittee operate, or allow to be operated Battery B coke ovens in such manner that:	Engineering Judgement	Y	C	
V.H.1.a.1	Restrictions	[<input type="checkbox"/> §2105.21.e.3.E; Consent Order Agreement, Condition #13]	At any time, the particulate mass emission rate from the pushing emission control system device, for Battery B exceeds a rate determined by an outlet concentration of 0.040 pounds per ton of coke.	Direct Measurement/Records Review	Y	C	
V.H.1.a.2	Restrictions	[§2105.21.e.4]	Fugitive pushing emissions or emissions from the pushing emission control system device outlet equal or exceed an opacity of 20% at any time, except if the Department determines in writing, upon written application from the person responsible for the coke ovens setting forth all information needed to make such determination, that such emissions are of only minor significance with respect to causing air pollution and do not prevent or interfere with the attainment or maintenance of any ambient air quality standard (any such determination shall be submitted as a proposed revision to Allegheny County's portion of the SIP).	Physical Inspection/Procedures	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.H.1.b	Restrictions	[§2105.03]	The permittee shall not operate, or allow to be operated Battery B, unless the PEC System baghouse is properly installed, operated and maintained according to the following conditions, at all times:	Engineering Judgement	Y	C	
V.H.1.b.1	Restrictions		Emissions due to the pushing of Battery B coke ovens shall be vented through the PEC System baghouse dust collector.	Engineering Judgement	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.H.1.b.2	Restrictions		The baghouse shall be equipped with automatic cleaning controls and instrumentation that shall continuously measure the differential pressure drop across the baghouse to within 5.0% of the measuring span of the device.	Engineering Judgement	Y	C	
V.H.1.b.3	Restrictions		Cleaning, maintenance, etc. shall be conducted as necessary when the pressure drop goes beyond the specified range.	Records Review	Y	C	
V.H.1.c	Restrictions	[§2103.12.h.6; §63.7290(a)]	The permittee shall not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from a coke oven battery that exceed 0.01 grain per dry standard cubic foot (gr/dscf).	Direct Measurement/Records Review	Y	C	
V.H.1.d	Restrictions	[§2103.12.h.6; §63.7290(b)(3)]	For each PEC System the permittee shall:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.1.d.1	Restrictions		Maintain the daily average fan motor amperes at 15 or above the minimum level established during the most recent performance test; or	Process Knowledge/Records Review	Y	C	
V.H.1.d.2	Restrictions		Maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test.	Process Knowledge/Records Review	NA		
V.H.1.e	Restrictions	[§2103.12.h.6; §63.7333 (a)]	For each control device applied to pushing emissions and subject to the emission limit in V.H.1.c above, the permittee shall demonstrate continuous compliance by meeting the requirements in Conditions V.H.1.e.(1) and V.H.1.e.2) below:	Engineering Judgement	Y	C	
V.H.1.e.1	Restrictions		Maintaining emissions of particulate matter at or below 0.01 grain per dry standard cubic foot (gr/dscf) ; and	Direct Measurement/Records Review	Y	C	
V.H.1.e.2	Restrictions		Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than once every two years.	Records Review	Y	C	
V.H.1.f	Restrictions	[<input type="checkbox"/> §2105.21.e.3; §2105.03]	Emissions from Battery B PEC System baghouse shall not exceed the limits listed in Table V-H- 1 at any time:	Direct Measurement/Emission Calcs	Y	C	
V.H.1.f	Restrictions		POLLUTANT LB/TON-COKE HOURLY(lb/hr)		Y	C	
V.H.1.f	Restrictions		PM 0.040 5.28 23.14		Y	C	
V.H.1.f	Restrictions		PM-10 0.040 5.28 23.14		Y	C	
V.H.1.f	Restrictions		A year is defined as any consecutive 12-month period.		Y	C	
V.H.2.a	Testing	[<input type="checkbox"/> §2108.02; Consent Order, 6/01/2007, #13; §63.7321]	The permittee shall have baghouse particulate emission stack tests conducted to demonstrate compliance with Condition V.H.1.a.1) above. The test shall be conducted once every two years using EPA Methods No.1 through No.5 and performed according to Site Level Condition IV.13.	Records Review	Y	C	
V.H.2.b	Testing	[<input type="checkbox"/> §2108.02]	Visible emissions observations of the baghouse stack exhaust and fugitive pushing emissions shall be conducted at least once every two years, as specified in Section 109 of the Department’s source testing manual, and be done simultaneously with the baghouse stack tests.	Records Review	Y	C	
V.H.2.c	Testing	[§2103.12.h.6; §63.7322(a)]	The permittee shall conduct each performance test according to the requirements in Condition V.H.2.d.	Records Review	Y	C	
V.H.2.d	Testing	[§2103.12.h.6; §63.7322(b)]	To determine compliance with the process weighted mass rate of particulate matter (lb/ton of coke) in Condition V.H.1.c above use the following test methods and procedures:	Engineering Judgement	Y	C	
V.H.2.d.1	Testing	[§2103.12.h.6; §63.7322(b)(1)]	Determine the concentration of particulate matter according to the following test methods in Appendix A to 40 CFR Part 60.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.2.d.1.a	Testing		Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at the outlet of the control device and prior to any releases to the atmosphere.	Records Review	Y	C	
V.H.2.d.1.b	Testing		Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.	Records Review	Y	C	
V.H.2.d.1.c	Testing		Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.	Records Review	Y	C	
V.H.2.d.1.d	Testing		Method 4 to determine the moisture content of the stack gas.	Records Review	Y	C	
V.H.2.d.1.e	Testing		Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.	Records Review	Y	C	
V.H.2.d.2	Testing	[§2103.12.h.6; §63.7322(b)(2)]	During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 50 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (i.e., sample for an integral number of pushes) .	Records Review	Y	C	
V.H.2.d.3	Testing	[§2103.12.h.6; §63.7322(b)(3)]	Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.	Records Review	Y	C	
V.H.2.d.4	Testing	[§2103.12.h.6; §63.7322(b)(4)]	Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows: $E_p = (C \cdot Q \cdot T) / (P \cdot K)$ Where: E_p = Process weighted mass emissions of particulate matter, lb/ton; C = Concentration of particulate matter, gr/dscf; Q = Volumetric flow rate of stack gas, dscf/hr; T = Total time during a run that a sample is withdrawn from the stack during pushing, hr; P = Total amount of coke pushed during the test run, tons; and K = Conversion factor 7,000 gr/lb	Records Review	Y	C	
V.H.2.e	Testing	[§2103.12.h.6; §63.7323(c)]	For each capture system applied to pushing emissions, the permittee shall establish a site-specific operating limit for the fan motor amperes or volumetric flow rate according to the procedures in Condition V.H.2.e.(1) or (2) below:	Engineering Judgement	Y	C	
V.H.2.e.1	Testing		If you elect the operating limit in V.H.1.d.1) above for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.2.e.2	Testing		If you elect the operating limit in V.H.1.d.2) above for volumetric flow rate, measure and record the total volumetric flow rate at the inlet of the control device during each push sampled for each particulate matter test run. Your operating limit is the lowest volumetric flow rate recorded during any of the three runs that meet the emission limit.	Records Review	Y	C	
V.H.2.f	Testing	[§2103.12.h.6; §63.7323(e)]	The permittee may change the operating limit for a capture system if you meet the requirements in Conditions V.H.2.f.(1) through (3) below:	Engineering Judgement	Y	C	
V.H.2.f.1	Testing		Submit a written notification to the Department of your request to conduct a new performance test to revise the operating limit.	Report Submission	Y	C	
V.H.2.f.2	Testing		Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).	Records Review	Y	C	
V.H.2.f.3	Testing		Establish revised operating limits according to the applicable procedures in Condition V.H.2.e above	Records Review	Y	C	
V.H.2.g	Testing	(§2103.12.h.1)	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.H.3.a	Monitoring	[§2103.12.i; §2103.12.h.1 and §2103.12.i]	The permittee shall continuously monitor and record the differential pressure drop across each baghouse module.	Direct Measurement	Y	C	
V.H.3.b	Monitoring	[§2103.12.i; §2103.12.h.1 and §2103.12.i]	The permittee shall inspect the Battery B PEC System weekly to insure compliance with conditions V.H.1.b above.	Records Review	Y	C	
V.H.3.c	Monitoring	[§2103.12.i; 63.7291(a)]	The permittee shall meet each of the following requirements in paragraphs V.H.3.c.1) through V.H.3.c.6) below for each coke oven battery.	Administrative Requirement	Y	C	
V.H.3.c.1	Monitoring		Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.c.2	Monitoring		Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day.	Physical Inspection/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.H.3.c.3	Monitoring		Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day. Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day.	Records Review	Y	C	
V.H.3.c.4	Monitoring		<p>If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater:</p> $X = 0.55 * Y \text{ (Eq. 1)}$ <p>Where: X = Number of calendar days allowed to complete corrective action or increase coking time; and Y = Current coking time for the oven, hours.</p> <p>For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.</p>	Records Review	Y	C	
V.H.3.c.5	Monitoring		The permittee shall demonstrate that:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.c.5.a	Monitoring		The corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in condition V.H.3.c.4) above, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in condition V.H.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in paragraph V.H.3.c.4) above.	Physical Inspection/Records Review	Y	C	
V.H.3.c.5.b	Monitoring		After implementing any additional corrective action and/or increased coking time required under condition V.H.3.c.5)a) or V.H.3.c.6)b) below, the permittee must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in condition V.H.3.c.4) above, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph V.H.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must follow the procedures in paragraph V.H.3.c.5)c) below.	Physical Inspection/Records Review	Y	C	
V.H.3.c.5.c	Monitoring		If the corrective action and/or increased coking time was unsuccessful as described in condition V.H.3.c.5)b) above, the permittee must repeat the procedures in paragraph V.H.3.c.5)b) above until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under paragraph V.H.3.c.5)b) above.	Records Review	Y	C	
V.H.3.c.6	Monitoring		If at any time the permittee places an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using one of the following procedures:	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.c.6.a	Monitoring		To qualify for a decreased coking time for an oven placed on increased coking time in accordance with condition V.H.3.c.4) or V.H.3.c.5) above, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.H.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time.	Physical Inspection/Records Review	Y	C	
			If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in condition V.H.3.c.5)b) above to confirm that the corrective action(s) and/or increased coking time was successful.		Y	C	
V.H.3.c.6.b	Monitoring		If the attempt to qualify for decreased coking time was unsuccessful as described in condition V.H.3.c.6)a) above, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.H.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time.	Physical Inspection/Records Review	Y	C	
			If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in condition V.H.3.c.5)b) above to confirm that the corrective action(s) and/or increased coking time was successful.		Y	C	
V.H.3.c.6.c	Monitoring		The permittee must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in paragraph V.H.3.c.6)b) above.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.d	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7291(b)]	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standards in Condition V.H.3.c above.	Administrative Requirement	Y	C	
V.H.3.e	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7300(c)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from coke battery(s). Each plan must address at a minimum the following elements.	Administrative Requirement	Y	C	
V.H.3.e.1	Monitoring		Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered.	Physical Inspection/Records Review	Y	C	
			The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the approval process.		Y	C	
V.H.3.e.2	Monitoring		Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.	Records Review	Y	C	
V.H.3.e.3	Monitoring		Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions may include, but are not limited to:	Process Knowledge	Y	C	
V.H.3.e.3.a	Monitoring		Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.	Physical Inspection/Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.e.3.b	Monitoring		Sealing off defective bags or filter media.	Process Knowledge	Y	C	
V.H.3.e.3.c	Monitoring		Replacing defective bags or filter media or otherwise repairing the control device.	Process Knowledge	Y	C	
V.H.3.e.3.d	Monitoring		Sealing off a defective baghouse compartment.	Process Knowledge	Y	C	
V.H.3.e.3.e	Monitoring		Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.	Process Knowledge	Y	C	
V.H.3.e.3.f	Monitoring		Shutting down the process producing the particulate emissions	Process Knowledge	Y	C	
V.H.3.f	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7330(a)]	For the PEC system baghouse applied to pushing emissions from a coke oven battery, the permittee shall at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in V.H.3.g below and conduct inspections at their specified frequency according to the following requirements:	Direct Measurement/Records Review	Y	C	
V.H.3.f.1	Monitoring		Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;	Direct Measurement/Records Review	Y	C	
V.H.3.f.2	Monitoring		Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;	Physical Inspection/Procedures	Y	C	
V.H.3.f.3	Monitoring		Check the compressed air supply for pulse-jet baghouses each day;	Physical Inspection/Procedures	Y	C	
V.H.3.f.4	Monitoring		Monitor cleaning cycles to ensure proper operation using an appropriate methodology;	Physical Inspection/Procedures	Y	C	
V.H.3.f.5	Monitoring		Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;	Physical Inspection/Procedures	Y	C	
V.H.3.f.6	Monitoring		Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (knead or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;	Physical Inspection/Procedures	Y	C	
V.H.3.f.7	Monitoring		Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and	Physical Inspection/Procedures	Y	C	
V.H.3.f.8	Monitoring		Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	Physical Inspection/Procedures	Y	C	
V.H.3.g	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(a)]	The permittee shall install, operate, and maintain each bag leak detection system on the PEC baghouse system according to the following requirements:	Engineering Judgement	Y	C	
V.H.3.g.1	Monitoring		The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;	Design Parameter	Y	C	
V.H.3.g.2	Monitoring		The system must provide output of relative changes in particulate matter loadings;	Design Parameter	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.H.3.g.3	Monitoring		The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;	Design Parameter	Y	C	
V.H.3.g.4	Monitoring		Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;	Engineering Judgement	Y	C	
V.H.3.g.5	Monitoring		To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;	Engineering Judgement	Y	C	
V.H.3.g.6	Monitoring		Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and	Administrative Requirement	Y	C	
V.H.3.g.7	Monitoring		Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.	Engineering Judgement	Y	C	
V.H.3.h	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(b)]	For each CPMS required in V.H.3.m below, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in Conditions V.H.3.h.1) through V.H.3.h.6) below:	Administrative Requirement	Y	C	
V.H.3.h.1	Monitoring		Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);	Direct Measurement/Records Review	Y	C	
V.H.3.h.2	Monitoring		Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;	Design Parameter	Y	C	
V.H.3.h.3	Monitoring		Performance evaluation procedures and acceptance criteria (e.g., calibrations);	Engineering Judgement	Y	C	
V.H.3.h.4	Monitoring		Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8);	Engineering Judgement	Y	C	
V.H.3.h.5	Monitoring		Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and	Engineering Judgement	Y	C	
V.H.3.h.6	Monitoring		Ongoing recordkeeping and reporting procedures in accordance the general requirements of §63.10(c), (e)(1), and (e)(2)(i).	Administrative Requirement	Y	C	
V.H.3.i	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(c)]	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.j	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(d)]	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Administrative Requirement	Y	C	
V.H.3.k	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(g)]	If the permittee elects the operating limit in V.H.1.d.1) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.	Direct Measurement/Records Review	Y	C	
V.H.3.l	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(h)]	If the permittee elects the operating limit in V.H.1.d.2) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the total volumetric flow rate at the inlet of the control device.	Direct Measurement/Records Review	Y	C	
V.H.3.m	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7330(d)]	For each capture system applied to pushing emissions, the permittee shall at all times monitor the fan motor amperes according to the requirements in Condition V.H.3.k above or the volumetric flow rate according to the requirements in Condition V.H.3.l above.	Direct Measurement/Records Review	Y	C	
V.H.3.n	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7332(a)]	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Direct Measurement/Records Review	Y	C	
V.H.3.o	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7332(b)]	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Records Review	Y	C	
V.H.3.p	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7333(d)]	For each capture system applied to pushing emissions and subject to the operating limit in Condition V.H.1.d above, the permittee shall demonstrate continuous compliance by meeting the requirements in Condition V.H.3.p.1) or V.H.3.p.2) below:	Administrative Requirement	Y	C	
V.H.3.p.1	Monitoring		If the permittee elects the operating limit for fan motor amperes in V.H.1.d.1) above:	Administrative Requirement	Y	C	
V.H.3.p.1.a	Monitoring		Maintaining the daily average fan motor amperes at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/Records Review	Y	C	
V.H.3.p.1.b	Monitoring		Checking the fan motor amperes at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/Records Review	Y	C	
V.H.3.p.2	Monitoring		If the permittee elects the operating limit for volumetric flow rate in V.H.1.d.2) above:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.H.3.p.2.a	Monitoring		Maintaining the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/Records Review	Y	C	
V.H.3.p.2.b	Monitoring		Checking the volumetric flow rate at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/Records Review	Y	C	
V.H.3.q	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7334(a)]	The permittee shall demonstrate continuous compliance with the work practice standards for fugitive pushing emissions according to the following requirements:	Administrative Requirement	Y	C	
V.H.3.q.1	Monitoring		Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by Condition V.H.3.c.2) above. Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to Condition V.H.3.c.3) above.	Physical Inspection/Records Review	Y	C	
V.H.3.q.2	Monitoring		Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in conditions V.H.3.q.1) through V.H.3.q.8).	Physical Inspection/Records Review	Y	C	
V.H.3.q.3	Monitoring		Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in Appendix A to 40 CFR Part 60 using a Method 9 certified observer unless you have an approved alternative procedure under V.H.3.q.7) below.	Physical Inspection/Procedures	Y	C	
V.H.3.q.4	Monitoring		Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (Appendix A to 40 CFR Part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii) for obtaining at least 3 hours of observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.	Physical Inspection/Procedures	Y	C	
V.H.3.q.5	Monitoring		If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (e.g., as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.	Physical Inspection	Y	C	
V.H.3.q.6	Monitoring		Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.	Physical Inspection	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.3.q.6.a	Monitoring		For a battery with a cokeside shed, the observer must be in a position that provides an unobstructed view and avoids interferences from the topside of the battery. Typical interferences to avoid include emissions from open standpipes and charging. Observations must include any fugitive emissions that escape from the top of the shed, from the ends of the shed, or from the area where the shed is joined to the battery. If the observer does not have a clear view to identify when a push starts or ends, a second person can be positioned to signal the start or end of the push and notify the observer when to start or end the observations. Radio communications with other plant personnel (e.g., pushing ram operator or quench car operator) may also serve to notify the observer of the start or end of a push. Record the oven number of any push not observed because of obstructions or interferences.	Physical Inspection/Records Review	Y	C	
V.H.3.q.6.b	Monitoring		You may reposition after the push to observe emissions during travel if necessary.	Administrative Requirement	Y	C	
V.H.3.q.7	Monitoring		If it is infeasible to implement the procedures in Conditions V.H.3.q.1) through V.H.3.q.6) above for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to the Department for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in Conditions V.H.3.q.1) through V.H.3.q.6) above, identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.	Administrative Requirement	Y	C	
V.H.3.q.8	Monitoring		For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with Condition V.H.3.c above. Maintain records documenting conformance with Condition V.H.3.c above.	Process Knowledge/Records Review	Y	C	
V.H.3.r	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7335(c)]	To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in V.H.3.g above, the permittee shall inspect and maintain each baghouse according to the requirements in Conditions V.H.3.g.1) through V.H.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in Condition V.H.3.g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/Records Review	Y	C	
V.H.4.a	Record Keeping	[§2103.12.j.1]	The results of the inspections required by condition V.H.3.b above shall be recorded weekly along with the differential pressure drop across the baghouse .	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.4.b	Record Keeping	[§2103.12.j; □§2103.12.h.1.]	Episodes of non-compliance with conditions V.H.1.a through V.H.1.f and V.H.3.b above and corrective actions taken shall be recorded upon occurrence.	Records Review	Y	C	
V.H.4.c	Record Keeping	[□§2103.12.j.1]	The permittee shall keep records of each baghouse maintenance inspection and repair, replacement or other corrective action.	Records Review	Y	C	
V.H.4.d	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(a)]	The permittee shall keep the following records:	Records Review	Y	C	
V.H.4.d.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Records Review	Y	C	
V.H.4.d.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Records Review	Y	C	
V.H.4.d.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Records Review	Y	C	
V.H.4.e	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(b)]	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.H.4.e.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Records Review	Y	C	
V.H.4.e.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Records Review	Y	C	
V.H.4.e.3	Record Keeping		Previous (that is, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).	Records Review	Y	C	
V.H.4.e.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.H.4.f	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(c)]	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Records Review	Y	C	
V.H.4.g	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(d)]	The permittee shall keep the records required in Conditions V.H.3.p through V.H.3.r above and V.H.4.k through V.H.4.m below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Records Review	Y	C	
V.H.4.h	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(a)]	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Records Review	Y	C	
V.H.4.i	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(b); 2103.12.i.2]	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Records Review	Y	C	
V.H.4.j	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(c)]	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.4.k	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7335(b)]	For each coke oven battery with a capture system or control device applied to pushing emissions, the permittee shall demonstrate continuous compliance with the operation and maintenance requirements in Condition V.H.3.e.1) above by meeting the following requirements:	Records Review	Y	C	
V.H.4.k.1	Record Keeping		Making monthly inspections of capture systems according to Condition V.H.3.e.1) above and recording all information needed to document conformance with these requirements; Performing preventative maintenance for each control device according to Condition V.H.3.e.2) above and recording all information needed to document conformance with these requirements; and	Physical Inspection/Records Review	Y	C	
V.H.4.k.2	Record Keeping		Initiating and completing corrective action for a bag leak detection system alarm according to Condition V.H.3.e.3) and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.	Process Knowledge/Records Review	Y	C	
V.H.4.l	Record Keeping	[§2103.12.j; 63.7335(c)]	The permittee shall inspect and maintain the pushing emission control baghouse as required in V.H.3.g.1) through V.H.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in V.H.3.g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/Records Review	Y	C	
V.H.4.m	Record Keeping	[§2103.12.j; 63.7335(d)]	The permittee shall maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Records Review	Y	C	
V.H.5.a	Reporting	[□(§2103.12.k.1)]	The permittee shall report all instances of non-compliance with conditions V.H.1.a through V.H.1.f, V.H.3.a and V.H.3.b, and V.H.4.a through V.H.4.c above along with all corrective action taken to restore the subject equipment to compliance, to the Department every six months.	Report Submission	Y	C	
V.H.5.b	Reporting	[□§2103.12.k.1; §2108.01.c.]	Reporting instances of non-compliance in accordance with condition V.H.5.a above does not relieve the permittee of the requirement to report breakdowns in accordance with Site Level Condition 5, if appropriate.	Report Submission	Y	C	
V.H.5.c	Reporting	[§2103.12.k; §2109.03 and Enforcement Order 202.E, 3/28/90]	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Report Submission	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.H.5.c.1	Reporting		For each individual coke battery or group of batteries served by the same push emission control system, and for all coke batteries combined:	Engineering Judgement	Y	C	
V.H.5.c.1.a	Reporting		The total number of pushes for the month;	Records Review	Y	C	
V.H.5.c.1.b	Reporting		The total number of controlled pushes for the month; and the monthly percentage availability (on-line time) of the pushing control system, based on the total number of pushes and total number of controlled pushes	Records Review	Y	C	
V.H.5.c.2	Reporting		For each outage of the pushing control system at each individual coke battery or group of batteries served by the same pushing emission control system:	Records Review	Y	C	
V.H.5.c.2.a	Reporting		The batteries affected;	Records Review	Y	C	
V.H.5.c.2.b	Reporting		The starting and ending dates and times;	Records Review	Y	C	
V.H.5.c.2.c	Reporting		The total time of each outage, to the nearest tenth of an hour;	Records Review	Y	C	
V.H.5.c.2.d	Reporting		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage.	Records Review	Y	C	
V.H.5.d	Reporting	[§2103.12.k; §2103.12.h.6; §63.7336(a)]	The permittee shall report each instance in which you did not meet each emission limitation in Conditions, V.H.1.c, V.H.1.d and V.H.1.e was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.H.6.a, V.H.6.b and V.H.6.c. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.H.5.h through V.H.5.k below.	Report Submission	Y	C	
V.H.5.e	Reporting	[§2103.12.k; §2103.12.h.6; §63.7336(b)]	During periods of startup, shutdown, and malfunction, the permittee must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	
V.H.5.e.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Engineering Judgement	Y	C	
V.H.5.e.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.H.5.f	Reporting	[§2103.12.k; §2103.12.h.6; §63.7340(a)]	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Report Submission	Y	C	
V.H.5.g	Reporting	[§2103.12.k; §2103.12.h.6; §63.7340(d)]	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Report Submission	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.5.h	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(a)]	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the PEC stacks to the Department according to the requirements in Conditions V.H.5.h.1) and V.H.5.h.2) below:	Report Submission	Y	C	
V.H.5.h.1	Reporting		Each semiannual compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Records Review	Y	C	
V.H.5.h.2	Reporting		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the Department has established instead of according to the dates in Conditions V.H.5.h.1) above.	Administrative Requirement	Y	C	
V.H.5.i	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(c)]	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.H.5.i.1) through V.H.5.i.3) below, and as applicable, Conditions V.H.5.i.4) through V.H.5.i.8) below.	Records Review	Y	C	
V.H.5.i.1	Reporting		Company name and address.	Records Review	Y	C	
V.H.5.i.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Records Review	Y	C	
V.H.5.i.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Records Review	Y	C	
V.H.5.i.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Records Review	Y	C	
V.H.5.i.5	Reporting		If there were no deviations from the continuous compliance requirements in Conditions V.H.3.p through V.H.3.r above and V.H.4.k through V.H.4.m above, a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.	Records Review	Y	C	
V.H.5.i.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.H.5.i.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.H.5.i.5)4), V.H.5.i.7)a) and V.H.5.i.7)b) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.H.5.i.7.a	Reporting		The total operating time of each affected source during the reporting period.	Records Review	Y	C	
V.H.5.i.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Records Review	Y	C	
V.H.5.i.8	Reporting		For each deviation from an emission limitation occurring at an affected source the permittee is using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.H.5.i.5)4), V.H.5.i.8)a) through V.H.5.i.8)l) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.H.5.i.8.a	Reporting		The date and time that each malfunction started and stopped.	Records Review	Y	C	
V.H.5.i.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Records Review	Y	C	
V.H.5.i.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Records Review	Y	C	
V.H.5.i.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.H.5.i.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Records Review	Y	C	
V.H.5.i.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Records Review	Y	C	
V.H.5.i.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Records Review	Y	C	
V.H.5.i.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Records Review	Y	C	
V.H.5.i.8.i	Reporting		A brief description of the process units.	Records Review	Y	C	
V.H.5.i.8.j	Reporting		A brief description of the continuous monitoring system.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.H.5.i.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Records Review	Y	C	
V.H.5.i.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Engineering Judgement	Y	C	
V.H.5.j	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(d)]	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Report Submission	Y	C	
V.H.5.k	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(e)]	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.H.6.a	Work Practice	[§2103.12.h.6; §63.7310(c)].	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63, Subpart A, §63.6(e)(3).	Engineering Judgement	Y	C	
V.H.6.b	Work Practice	[§2103.12.h.6; §63.7300(a)]	As required by §63.6(e)(1)(i), the permittee shall operate and maintain each coke battery including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by 40 CFR Part 63, Subpart CCCCC.	Process Knowledge	Y	C	
V.H.6.c	Work Practice	[§2103.12.h.6; §63.7310(a)]	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Records Review	Y	C	
V.H.7.a	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.I.1.a	Restrictions	§2105.21.g	The permittee shall not quench, or allow the quenching of, coke unless the emissions from such quenching are vented through a baffled quench tower and the water used for such quenching is equivalent to, or better than, the water quality standards established for the nearest stream or river by regulations promulgated by the DEP under the Pennsylvania Clean Streams Law, Act of June 22, 1937, PL. 1987, as amended, 35 P.S. 691.1 et seq., except that water from the nearest stream or river may be used for the quenching of coke. The nearest stream or river to the USX Corporation facility in Clairton, PA, shall be the Monongahela River.	Record Review	Y	C*	The certification contained in this report is based on the understanding that make-up water used for the quenching of coke will be "equivalent to, or better than, the water quality standards established for the Monongahela River by regulation promulgated by the DEP under the Pennsylvania Clean Streams Law, - except that water from the Monongahela River may be used for" such quenching make-up.
V.I.1.b	Restrictions	§2103.12.h.6; §63.7295(a)	The permittee shall meet the following requirements for each quench tower and backup quench station:	Record Review	Y	C	
V.I.1.b.1	Restrictions	§2103.12.h.6; §63.7295(a)(1)	For the quenching of hot coke, the permittee shall meet one of the following requirements:	Record Review	Y	C	
V.I.1.b.1.a	Restrictions		The concentration of total dissolved solids (TDS) in the water used for quenching must not exceed 1,100 milligrams per liter (mg/L); or	Direct Measurement & Record Review	Y	C	
V.I.1.b.1.b	Restrictions		The sum of the concentrations of benzene, benzo (a) pyrene, and naphthalene in the water used for quenching must not exceed the applicable site-specific limit approved by the Department.	Direct Measurement & Record Review	Y	C	
V.I.1.b.2	Restrictions	§2103.12.h.6; §63.7295(a)(2)	The permittee shall use acceptable makeup water, as defined in §63.7352, for quenching	Record Review	Y	C	
V.I.1.c	Restrictions	§2103.12.h.6; §63.7326(d)	For each by-product coke oven batteries subject to the requirements for quench water in V.I.1.1) above, the permittee shall submit a notification of compliance status containing the results of the quench water performance test (TDS or constituent limit) before the close of business on the 30th calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test before the close of business on the 60th calendar days following completion of the performance test according to §63.10(d)(2).	Record Review	Y	C	
V.I.2.a	Testing	§2103.12.h.6; §63.7320(b) and §63.7283(a)	The permittee shall conduct performance tests to demonstrate compliance with the TDS limit or constituent limit for quench water in §63.7295(a)(1) by April 14, 2006	Record Review	Y	C	
V.I.2.b	Testing	§2103.12.h.6; §63.7325(a)	If the permittee elects the TDS limit for quench water in V.I.1.b.1)a) above, the permittee shall conduct each performance test according to the following conditions:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.I.2.b.1	Testing		Take the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review	Y	C	
V.I.2.b.2	Testing		Determine the TDS concentration of the sample using Method 160.1 in 40 CFR Part 136.3 (see "residue—filterable"), except that you must dry the total filterable residue at 103 to 105 [deg] C (degrees Centigrade) instead of 180 [deg] C.	Record Review	Y	C	
V.I.2.c	Testing	§2103.12.h.6; §63.7325(b)	If at any time the permittee elects to meet the alternative requirements for quench water in V.I.1.b1)b) above, the permittee shall establish a site-specific constituent limit according to the procedures in Conditions V.I.2.c.1) through V.I.2.c.4) below:	Record Review	Y	C	
V.I.2.c.1	Testing		Take a minimum of nine quench water samples from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review	Y	C	
V.I.2.c.2	Testing		For each sample, determine the TDS concentration according to the requirements in Condition V.I.2.b above, and the concentration of benzene, benzo(a)pyrene, and naphthalene using the applicable methods in 40 CFR Part 136 or an approved alternative method.	Record Review	Y	C	
V.I.2.c.3	Testing		Determine and record the highest sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in any sample that has a TDS concentration less than or equal to the TDS limit of 1,100 mg/L. This concentration is the site-specific constituent limit.	Record Review	Y	C	
V.I.2.c.4	Testing		Submit the site-specific limit, sampling results, and all supporting data and calculations to Department for review and approval.	Record Review	Y	C	
V.I.2.d	Testing	§2103.12.h.6; §63.7325(c)	If the permittee elects the constituent limit for quench water in V.I.1.b.1) above, the permittee shall conduct each performance test according to the conditions in Conditions V.I.2.d.1) and V.I.2.d.2) below:	Record Review	Y	C	
V.I.2.d.1	Testing		Take a quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review	Y	C	
V.I.2.d.2	Testing		Determine the sum of the concentration of benzene, benzo(a)pyrene, and naphthalene in the sample using the applicable methods in 40 CFR Part 136 or an approved alternative method.	Record Review	Y	C	
V.I.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.I.3.a	Monitoring	§2103.12.i	The permittee shall inspect the quench tower monthly for damaged or missing baffles and blockage and initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.	Record Review	Y	C	
V.I.3.b	Monitoring	§2103.12.i; §2103.12.h.6; §63.7333(f)	Beginning on the first day compliance is required under §63.7283, the permittee shall demonstrate continuous compliance with the TDS limit for quenching in §63.7295(a)(1)(i) by meeting the requirements in Conditions V.I.3.b.1) and V.I.3.b.2) below:	Record Review	Y	C	
V.I.3.b.1	Monitoring		Maintaining the TDS content of the water used to quench hot coke at 1,100 mg/L or less; and	Record Review	Y	C	
V.I.3.b.2	Monitoring		Determining the TDS content of the quench water at least weekly according to the requirements in Condition V.I.2.b above and recording the sample results.	Record Review	Y	C	
V.I.3.c	Monitoring	§2103.12.i; 63.7333(g)	The permittee shall demonstrate continuous compliance with the constituent limit for quenching in Condition V.I.1.b.2) above by meeting the following requirements:	Record Review	Y	C	
V.I.3.c.1	Monitoring		Maintaining the sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used to quench hot coke at levels less than or equal to the site-specific limit approved by the permitting authority; and	Record Review	Y	C	
V.I.3.c.2	Monitoring		Determining the sum of the constituent concentrations at least monthly according to the requirements in §63.7325(c) and recording the sample results.	Record Review	Y	C	
V.I.4.a	Recordkeeping	§2103.12.j)	The permittee shall maintain records of all quench tower inspections when missing or damaged baffles or blockages are discovered.	Record Review	Y	C	
V.I.4.b	Recordkeeping	(§2103.12.j)	The permittee shall maintain records of all repairs or replacement of baffles. The record keeping shall include a description of the repair or replacement, the date repairs and/or replacements were initiated and the date repairs and/or replacements were completed.	Record Review	Y	C	
V.I.4.c	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(d)	The permittee shall keep the records required in Conditions V.I.3.a and V.I.3.b above and V.I.4.e below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Record Review	Y	C	
V.I.4.d	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7343(a)	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Record Review	Y	C	
V.I.4.e	Recordkeeping		For each coke oven battery subject to the work practice standard for quenching in V.I.6.a below, you must demonstrate continuous compliance according to the requirements of Conditions V.I.4.e.1) through V.I.4.e.3) below: [§2103.12.i; §2103.12.h.6; §63.7334(e)]	Record Review	Y	C	
V.I.4.e.1	Recordkeeping		Maintaining baffles in each quench tower such that no more than 5 percent of the cross-sectional area of the tower is uncovered or open to the sky as required in Condition V.I.6.a.1) below;	Record Review	Y	C	
V.I.4.e.2	Recordkeeping		Maintaining records that document conformance with the washing, inspection, and repair requirements in Condition V.I.6.a.2) below, including records of the ambient temperature on any day that the baffles were not washed; and	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.I.4.e.3	Recordkeeping		Maintaining records of the source of make-up water to document conformance with the requirement for acceptable make-up water in Condition V.I.1.b.2) above.	Record Review	Y	C	
V.I.5.a	Reporting	§2103.12.k; §2103.12.k	The permittee shall submit semiannual reports to the Department in accordance General Condition III.15.d above of the record keeping information required in Conditions V.I.4.a and V.I.4.b above.	Record Review	Y	C	
V.I.5.b	Reporting	§2103.12.k; §2103.12.h.6; §63.7327(e)	For each coke oven battery, the permittee shall demonstrate initial compliance with the work practice standards for quenching in Condition V.I.6.a below by certifying in your notification of compliance status that you have met the requirements of Conditions V.I.5.b.1 and V.I.5.b.2 below:	Record Review	Y	C	
V.I.5.b.1	Reporting		Installed the required equipment in each quench tower; and	Record Review	Y	C	
V.I.5.b.2	Reporting		You will meet each of the work practice requirements beginning no later than April 14, 2006	Record Review	Y	C	
V.I.5.c	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(a)	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the quench towers to the Department according to the requirements in Conditions V.I.5.c.1) and V.I.5.c.2) below:	Record Review	Y	C	
V.I.5.c.1	Reporting		Each semiannual compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Record Review	Y	C	
V.I.5.c.2	Reporting		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in Conditions V.I.5.c.1) above.	Record Review	Y	C	
V.I.5.d	Reporting	§63.7341(c)	Semiannual compliance report contents. Each compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for the quench tower. The reports must include the information in Conditions V.I.5.d.1) through V.I.5.d.3) below, and as applicable, Conditions V.I.5.d.4) through V.I.5.d.6) below.	Record Review	Y	C	
V.I.5.d.1	Reporting		Company name and address.	Record Review	Y	C	
V.I.5.d.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.I.5.d.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.I.5.d.4	Reporting		If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.I.5.d.5	Reporting		If there were no deviations from the continuous compliance requirements in Conditions V.I.3.b, V.I.3.c and V.I.4.e above (for the quench tower), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.	Record Review	Y	C	
V.I.5.d.6	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC (including quench water limits) and for each deviation from the requirements for work practice standards in 40 CFR 63, Subpart CCCCC that occurs at the quench tower, the compliance report must contain the information in Conditions V.I.5.d.4) and V.I.5.d.6)a) through V.I.5.d.6)b). This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.I.5.d.6.a	Reporting		The total operating time of the quench tower during the reporting period.	Record Review	Y	C	
V.I.5.d.6.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.I.6.a	Work Practices	[§2103.12.h.6; §63.7295(b)]	For quench towers 1,5,7 and B, the permittee shall meet each of the following requirements:	Record Review	Y	C	
V.I.6.a.1	Work Practices		The permittee shall equip each quench tower with baffles such that no more than 5 percent of the cross sectional area of the tower may be uncovered or open to the sky.	Record Review	Y	C	
V.I.6.a.2	Work Practices		The permittee shall wash the baffles in each quench tower once each day that the tower is used to quench coke, except as specified in the following conditions:	Record Review	Y	C	
V.I.6.a.2.a	Work Practices		You are not required to wash the baffles in a quench tower if the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the day, you must resume daily washing according to the schedule in your operation and maintenance plan.	Record Review	Y	C	
V.I.6.a.2.b	Work Practices		You must continuously record the ambient temperature on days that the baffles were not washed.	Record Review	Y	C	
V.I.6.a.3	Work Practices		Inspect each quench tower monthly for damaged or missing baffles and blockage.	Record Review	Y	C	
V.I.6.a.4	Work Practices		Initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.	Record Review	Y	C	
V.I.6.b	Work Practices	§2103.12.h.6; §63.7295(c)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standards in Condition V.I.6.a above.	Record Review	Y	C	
V.I.7	Additional Requirements		None except as provided elsewhere.	N/A	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.J.1.a	Restrictions	§2105.21.g	The permittee shall not quench, or allow the quenching of, coke unless the emissions from such quenching are vented through a baffled quench tower and the water used for such quenching is equivalent to, or better than, the water quality standards established for the nearest stream or river by regulations promulgated by the DEP under the Pennsylvania Clean Streams Law, Act of June 22, 1937, PL. 1987, as amended, 35 P.S. 691.1 et seq., except that water from the nearest stream or river may be used for the quenching of coke. The nearest stream or river to the USX Corporation facility in Clairton, PA, shall be the Monongahela River.	Record Review			
V.J.1.b	Restrictions	§2103.12.h.6; §63.7295(a)	The permittee shall meet the following requirements for each quench tower and backup quench station:	Record Review			
V.J.1.b.1	Restrictions	§2103.12.h.6; §63.7295(a)(1)	For the quenching of hot coke, the permittee shall meet one of the following requirements:	Record Review			
V.J.1.b.1.a	Restrictions		The concentration of total dissolved solids (TDS) in the water used for quenching must not exceed 1,100 milligrams per liter (mg/L); or	Direct Measurement & Record Review			
V.J.1.b.1.b	Restrictions		The sum of the concentrations of benzene, benzo (a) pyrene, and naphthalene in the water used for quenching must not exceed the applicable site-specific limit approved by the Department.	Direct Measurement & Record Review			
V.J.1.b.2	Restrictions	§2103.12.h.6; §63.7295(a)(2)	The permittee shall use acceptable makeup water, as defined in §63.7352, for quenching	Record Review			
V.J.1.c	Restrictions	§2103.12.h.6; §63.7326(d)	For each by-product coke oven batteries subject to the requirements for quench water in V.J.1.b.1), the permittee shall submit a notification of compliance status containing the results of the quench water performance test (TDS or constituent limit) before the close of business on the 30th calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test before the close of business on the 60th calendar days following completion of the performance test according to §63.10(d)(2).	Record Review			
V.J.2.a	Testing	§2103.12.h.6; §63.7320(b) and §63.7283(a)	The permittee shall conduct performance tests to demonstrate compliance with the TDS limit or constituent limit for quench water in §63.7295(a)(1) by April 14, 2006	Record Review			

V.J.2.b	Testing	§2103.12.h.6; §63.7325(a)	If the permittee elects the TDS limit for quench water in V.J.1.b.1)a), the permittee shall conduct each performance test according to the following conditions:	Record Review
V.J.2.b.1	Testing		Take the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review
V.J.2.b.2	Testing		Determine the TDS concentration of the sample using Method 160.1 in 40 CFR Part 136.3 (see "residue—filterable"), except that you must dry the total filterable residue at 103 to 105 [deg] C (degrees Centigrade) instead of 180 [deg] C.	Record Review
V.J.2.c	Testing	§2103.12.h.6; §63.7325(b)	If at any time the permittee elects to meet the alternative requirements for quench water in V.J.1.b.1)b) above, the permittee shall establish a site-specific constituent limit according to the procedures in Conditions V.J.2.c.1) through V.J.2.c.4) below:	Record Review
V.J.2.c.1	Testing		Take a minimum of nine quench water samples from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review
V.J.2.c.2	Testing		For each sample, determine the TDS concentration according to the requirements in Condition V.J.2.b above, and the concentration of benzene, benzo(a)pyrene, and naphthalene using the applicable methods in 40 CFR Part 136 or an approved alternative method.	Record Review
V.J.2.c.3	Testing		Determine and record the highest sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in any sample that has a TDS concentration less than or equal to the TDS limit of 1,100 mg/L. This concentration is the site-specific constituent limit.	Record Review
V.J.2.c.4	Testing		Submit the site-specific limit, sampling results, and all supporting data and calculations to Department for review and approval.	Record Review
V.J.2.d	Testing	§2103.12.h.6; §63.7325(c)	If the permittee elects the constituent limit for quench water in V.J.1.b.1)b), the permittee shall conduct each performance test according to the conditions in Conditions V.J.2.d.1) and V.J.2.d.2) below:	Record Review
V.J.2.d.1	Testing		Take a quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.	Record Review
V.J.2.d.2	Testing		Determine the sum of the concentration of benzene, benzo(a)pyrene, and naphthalene in the sample using the applicable methods in 40 CFR Part 136 or an approved alternative method	Record Review

Quench Towers 6 and 8 were not in operation during the reporting

V.J.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review
V.J.3.a	Monitoring	§2103.12.i	The permittee shall inspect the quench tower monthly for damaged or missing baffles and blockage and initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.	Record Review
V.J.3.b	Monitoring	§2103.12.h.6; §63.7333(f)	Beginning on the first day compliance is required under §63.7283, the permittee shall demonstrate continuous compliance with the TDS limit for quenching in §63.7295(a)(1)(i) by meeting the requirements in Conditions V.J.3.b.1) and V.J.3.b.2):	Record Review
V.J.3.b.1	Monitoring		Maintaining the TDS content of the water used to quench hot coke at 1,100 mg/L or less; and	Record Review
V.J.3.b.2	Monitoring		Determining the TDS content of the quench water at least weekly according to the requirements in Condition V.J.2.b and recording the sample results.	Record Review
V.J.3.c	Monitoring	63.7333(g)	The permittee shall demonstrate continuous compliance with the constituent limit for quenching in Condition V.J.1.b.1)b) by meeting the following requirements:	Record Review
V.J.3.c.1	Monitoring		Maintaining the sum of the concentrations of benzene, benzo(a)pyrene, and naphthalene in the water used to quench hot coke at levels less than or equal to the site-specific limit approved by the permitting authority; and	Record Review
V.J.3.c.2	Monitoring		Determining the sum of the constituent concentrations at least monthly according to the requirements in §63.7325(c) and recording the sample results.	Record Review
V.J.4.a	Recordkeeping	§2103.12.j	The permittee shall maintain records of all quench tower inspections when missing or damaged baffles or blockages are discovered.	Record Review
V.J.4.b	Recordkeeping	§2103.12.j	The permittee shall maintain records of all repairs or replacement of baffles. The record keeping shall include a description of the repair or replacement, the date repairs and/or replacements were initiated and the date repairs and/or replacements were completed.	Record Review
V.J.4.c	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7342(d)	The permittee shall keep the records required in Conditions V.J.3.a and V.J.3.b above to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Record Review
V.J.4.d	Recordkeeping	§2103.12.j; §2103.12.h.6; §63.7343(a)	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Record Review
V.J.5.a	Reporting	§2103.12.k	At least every six (6) months, the permittee shall submit semiannual reports to the Department in accordance General Condition III.15.d above of the record keeping information required in Conditions V.J.4.a and V.J.4.b above.	Record Review
V.J.5.b	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(a)	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the quench towers to the Department according to the requirements in Conditions V.J.5.b.1) and V.J.5.b.2) below:	Record Review

period.

V.J.5.b.1	Reporting		Each semiannual compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the <u>semiannual reporting period</u> .	Record Review
V.J.5.b.2	Reporting		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in Conditions <u>V.J.5.b.1) above</u> .	Record Review
V.J.5.c	Reporting	§63.7341(c)	Semiannual compliance report contents. Each compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for the quench tower. The reports must include the information in Conditions <u>V.J.5.c.1) through V.J.5.c.3) below</u> , and as applicable, Conditions <u>V.J.5.c.4) through V.J.5.c.6) below</u> .	Record Review
V.J.5.c.1	Reporting		Company name and address.	Record Review
V.J.5.c.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content <u>of the report</u> .	Record Review
V.J.5.c.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review
V.J.5.c.4	Reporting		If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in <u>§63.10(d)(5)(i)</u> .	Record Review
V.J.5.c.5	Reporting		If there were no deviations from the continuous compliance requirements in Conditions V.J.3.b and V.J.3.c above (for the quench tower), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements <u>during the reporting period</u> .	Record Review
V.J.5.c.6	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC (including quench water limits) and for each deviation from the requirements for work practice standards in 40 CFR 63, Subpart CCCCC that occurs at the quench tower, the compliance report must contain the information in Conditions <u>V.J.5.c.4) and V.J.5.c.6)a) through V.J.5.c.6)b)</u> . This includes periods of startup, shutdown, and malfunction.	Record Review
V.J.5.c.6.a	Reporting		The total operating time of the quench tower during the reporting period.	Record Review
V.J.5.c.6.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action <u>taken</u> .	Record Review
V.J.6	Work Practice		None except as provided elsewhere	N/A
V.J.7	Additional Requirements		None except as provided elsewhere	N/A

Note: Quench Tower 6 when it became inaccessible on October 29, 2012 and Quench Tower 8 became inaccessible on November 12, 2012. The towers were removed from service on as part of the construction project authorized by IP0052 - 1014.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/D	
V.K.1.a	Restrictions	\$2105.06, RACT Plan 234	The SCOT Plant incinerator shall be properly maintained and operated according to good engineering and air pollution control practices at all times.	Engineering Judgment	Y	C	
V.K.1.b	Restrictions	\$2104.01.a	The permittee shall not operate, or allow to be operated, the desulfurization plant in such manner that the quantity of visible emissions from a flare or process fugitive emissions from the desulfurization plant, including uncombined water.	N/A			
V.K.1.b.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period; or,	Record Review	Y	C	
V.K.1.b.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.K.1.c	Restrictions	Enforcement Order No. 200, November 18, 1994	The permittee shall, at all times:	N/A			
V.K.1.c.1	Restrictions		Properly maintain two Claus Plants at the coke oven gas desulfurization facility. Each Claus Plant shall be capable of independently processing all of the coke oven gas produced by the coke plant at full production.	Engineering Judgment	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.K.1.c.2	Restrictions		Operate one Claus Plant when coke oven gas is being produced.	Record Review	Y	C	
V.K.1.c.3	Restrictions		Have its second Claus Plant ready for start-up and operation when a breakdown of the first Claus Plant occurs, except when the second Claus Plant is down for repairs, maintenance or modification. All repairs, maintenance and modifications to Claus Plants shall be made as expeditiously as practicable. The second Claus Plant shall start up and be fully operational within 18 hours of each breakdown on the first Claus Plant if the plant production is below 5,000 tons of coke per day at the time of the breakdown, or within 30 minutes of each such breakdown if the production is 5,000 tons of coke per day or greater.	Record Review	Y	C	
V.K.1.d	Restrictions	Enforcement Order No. 200, November 18, 1994	The permittee shall:	N/A			
V.K.1.d.1	Restrictions		Operate and maintain an HCN (hydrogen cyanide) Destruct Unit at all times that coke oven gas is being produced.	Record Review	Y	C	
V.K.1.d.2	Restrictions		Have two catalytic reactors in the HCN Destruct Unit, each of which is capable of independently processing all of the feed gas to the HCN Destruct Unit when the coke plant is operating at full production. The second catalytic reactor shall be ready for immediate operation at all times except when the second catalytic reactor is down for repair. All repairs to catalytic reactors shall be made as expeditiously as practicable.	Record Review	Y	C	
V.K.1.e	Restrictions	Enforcement Order No. 200, November 18, 1994	The permittee shall:	N/A			
V.K.1.e.1	Restrictions		Operate and maintain a Vacuum Carbonate Unit at all times that coke oven gas is being produced at the Clairton Works.	Record Review	Y	C	
V.K.1.e.2	Restrictions		Have two absorber columns in the Vacuum Carbonate Unit, each of which is capable of independently processing all of the gas flow through the Vacuum Carbonate Unit when the coke plant is operating at full production.	Process Knowledge	Y	C	
V.K.1.e.3	Restrictions		Have two Axi compressors in the Vacuum Carbonate Unit, each of which is capable of independently processing all of the acid gases generated at the Vacuum Carbonate Unit when the coke plant is operating at full production.	Process Knowledge	Y	C	
V.K.1.e.4	Restrictions		Operate one absorber column and one Axi compressor at all times when coke oven gas is being produced.	Record Review	Y	C	
V.K.1.e.5	Restrictions		Have its second absorber column and its second Axi compressor in the Vacuum Carbonate Unit ready at all times for operation within two hours except when the second absorber column or second Axi compressor is down for repairs, maintenance or modifications, or when there is a sudden, unexpected failure of a primary unit(s). If there is a sudden, unexpected failure of the primary absorber column or the primary Axi compressor, the secondary unit(s) shall be operational within eight hours of such failure(s). All repairs, maintenance and modifications to absorber columns and the Axi compressors shall be made as expeditiously as practicable.	Record Review	Y	C	
V.K.1.f	Restrictions	Enforcement Order No. 200, November 18, 1994	The permittee shall:	N/A			
V.K.1.f.1	Restrictions		At all times, properly maintain two strippers in the Vacuum Carbonate Unit at the coke oven gas desulfurization facility.	Engineering Judgment	Y	C	
V.K.1.f.2	Restrictions		Insure that each stripper shall be capable of independently processing all of the solution from the absorber columns.	Process Knowledge	Y	C	
V.K.1.f.3	Restrictions		Operate one stripper in its Vacuum Carbonate Unit at all times when coke oven gas is being produced.	Record Review	Y	C	
V.K.1.f.4	Restrictions		At all times, have its second stripper ready for operation within three (3) hours except when the second stripper is down for repairs, maintenance or modifications. All repairs, maintenance and modifications to the strippers shall be made as expeditiously as practicable.	Record Review	Y	C	

Title V Citation	Category	Revision	Requirement	Compliance			Comments
				Method	V/ N	Test C/L	
V.K.1.g	Restrictions	Enforcement Order No. 200, November 18, 1993	The permittee shall, at all times:	N/A			
V.K.1.g.1	Restrictions		Maintain in good working order spare heat exchangers in the Vacuum Carbonate units at the Claiton Works coke oven gas desulfurization facility as appropriate: Listing of Critical Heat Exchangers and Spare Heat Exchangers for the Vacuum Carbonate Unit at the Claiton Works Coke Oven Gas Desulfurization Facility Unit	Engineering Judgement	Y	C	
V.K.1.g.1.a	Restrictions		100 Vacuum Carbonate Units Carbonate Reboiler	Record Review	Y	C	
V.K.1.g.1.b	Restrictions		Process Water Cooler	Record Review	Y	C	
V.K.1.g.1.c	Restrictions		Carbonate Solution Heat Exchanger	Record Review	Y	C	
V.K.1.g.1.d	Restrictions		600 Vacuum Carbonate Units Carbonate Reboiler	Record Review	Y	C	
V.K.1.g.1.e	Restrictions		Carbonate Solution Heat Exchanger	Record Review	Y	C	
V.K.1.g.1.f	Restrictions		Process Water Cooler	Record Review	Y	C	
V.K.1.g.1.g	Restrictions		For Both 100 and 600 Vacuum Carbonate Units Vacuum Pump After-cooler	Record Review	Y	C	
V.K.1.g.2	Restrictions		Maintain in good working order spare pumps in the Vacuum Carbonate Units at the coke oven gas desulfurization facility as appropriate: Listing of Critical Pumps and Spare Pumps for the Vacuum Carbonate Units at the Claiton Works Coke Oven Gas Desulfurization Facility Unit	Engineering Judgement	Y	C	
V.K.1.g.2.a	Restrictions		100 Vacuum Carbonate Units Compressor Lubricant Oil	Record Review	Y	C	
V.K.1.g.2.b	Restrictions		Tarbing Lubricant Oil	Record Review	Y	C	
V.K.1.g.2.c	Restrictions		Lean Carbonate Solution	Record Review	Y	C	
V.K.1.g.2.d	Restrictions		Direct Condenser	Record Review	Y	C	
V.K.1.g.2.e	Restrictions		Rich Carbonate Solution	Record Review	Y	C	
V.K.1.g.2.f	Restrictions		600 Vacuum Carbonate Units Rich Solution	Record Review	Y	C	
V.K.1.g.2.g	Restrictions		Lean Carbonate Solution	Record Review	Y	C	
V.K.1.g.2.h	Restrictions		Direct Condenser Water	Record Review	Y	C	
V.K.1.g.2.i	Restrictions		Common Spares for Rich Solution, Lean Carbonate Solution, and Direct Condenser Water	Record Review	Y	C	
V.K.1.g.2.j	Restrictions		Lubricant Oil	Record Review	Y	C	
V.K.1.h	Restrictions	§2104.02.b	The permittee shall not operate, or allow to be operated, any process in such manner that emissions of particulate matter from such process exceed seven (7) pounds in any 60 minute period or 100 pounds in any 24-hour period, except that no person subject to these requirements shall be required to reduce emissions to a greater degree than 99 percent. This condition shall apply in the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 of this Article or any alternative standard(s) established for such source pursuant to §2104.01 of Article XXX.	Direct Measurement & Record Review	Y	C	
V.K.1.i	Restrictions	§2104.03.c	The permittee shall not operate, or allow to be operated, any process, except for miscellaneous sulfur-emitting processes for which there is an emissions standard under Part E of Article XXXI, in such manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 ppm (dry basis) at any time.	Direct Measurement & Record Review	Y	C	
V.K.1.j	Restrictions	§2105.21.b	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, no person shall flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed, or combusted, unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to the following concentrations:	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.K.1.j.1	Restrictions		For coke batteries designated 13, 14, 15, 20, and D, a concentration of ten (10) grains per hundred dry cubic feet of coke oven gas;	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.K.1.j.2	Restrictions		The standard set forth in V.K.1.j.1) above for coke oven batteries designated 13, 14, 15, 20, and D shall be deemed satisfied for such batteries if the coke oven gas from batteries designated 1, 2, 3, 13, 14, 15, 19, 20 and D and treated by the Claiton Works coke oven gas desulfurization system in existence as of June 24, 1993, has a sulfur compound concentration, measured as H ₂ S, of no greater than 40 grains per hundred dry standard cubic feet of coke oven gas produced by the Claiton Works, when all sulfur emissions from its Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S, are added to the measured H ₂ S. The concentration of sulfur compounds shall include tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	V/M	Test C/I	
V.K.2.a	Testing	Enforcement Order No. 200 (11/18/94) and §2108.02	At least once every two (2) years, the permittee shall perform a stack test of the SCOT plant incinerator waste gas stream to measure the emission rate of sulfur compounds. This shall be determined by the performance of three sets of two-hour average measurements of sulfur compounds in the waste gas stream and the associated volume gas flow. All concentration and flow measurements for each run shall be performed over the same two-hour sampling period. Acceptable H2S and organic sulfide measurement techniques are specified in Chapters 15 and 16 of the Department's Source Testing Manual. Waste gas stream flow rates shall be determined by calibrated pilot tube measurements. All testing shall be performed in accordance with Article XXI.	Record Review	Y	C	
V.K.2.b	Testing	§2103.12.b.1, §2108.02.b, §2108.02.c	The permittee shall perform emission tests on the SCOT Plant for all the criteria pollutants and benzene (PM, PM10, NOx, SO2, CO, VOC and benzene) to develop emission factors that can be applied to quantify criteria pollutants and benzene emissions. Such testing shall be conducted in accordance with approved EPA methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing shall be submitted to the Department within 90 days of the date of the stack test(s).	Record Review	Y	C	
V.K.2.c	Testing	§2103.12.b.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.K.3	Monitoring	§2103.12.1	In order to demonstrate compliance with the concentration of sulfur compounds in the clean coke oven gas as specified in §2103.21.a, the permittee shall continuously monitor the concentration of sulfur compounds, measured as H2S, in the desulfurized coke oven gas according to the continuous method approved by the Department.	Record Review	Y	C	
V.K.4.a	Record Keeping	§2103.12.1	The permittee shall maintain records of all repairs, maintenance and modifications to:	N/A			
V.K.4.a.a	Record Keeping		The two Claus Plants; and	Record Review	Y	C	
V.K.4.a.b	Record Keeping		The absorber columns, strippers and ad compressors in the Vacuum Carbamate Unit.	Record Review	Y	C	
V.K.4.b	Record Keeping	§2103.12.1	The permittee shall maintain records of the following information:	N/A			
V.K.4.b.1	Record Keeping		For each day and for the month, the average grains of H2S per 100 dry of coke oven gas (COG) processed by the desulfurization system:	N/A			
V.K.4.b.1.a	Record Keeping		In the raw COG delivered;	Record Review	Y	C	
V.K.4.b.1.b	Record Keeping		In the clean COG;	Record Review	Y	C	
V.K.4.b.1.c	Record Keeping		In the tail gas; and	Record Review	Y	C	
V.K.4.b.1.d	Record Keeping		In the total of the clean COG and the tail gas;	Record Review	Y	C	
V.K.4.b.2	Record Keeping		The number of days on which the average grains H2S per 100 dry of COG (total of clean COG measurements and tail gas measurements) exceed the applicable standard, rounding off to the nearest 0.1 grain; and	Record Review	Y	C	
V.K.4.b.3	Record Keeping		The monthly percentage availability (on-line time) of the desulfurization system, based on the total hours of coke operations and the total hours that both the plant was fully available and all COG was normally processed; and	Record Review	Y	C	
V.K.4.b.4	Record Keeping		For each full or partial outage of the desulfurization system, including any full or partial resumption of the system;	N/A			
V.K.4.b.4.a	Record Keeping		The starting and ending dates and times;	Record Review	Y	C	
V.K.4.b.4.b	Record Keeping		The total time of each outage, and the total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.K.4.b.4.c	Record Keeping		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage;	Record Review	Y	C	
V.K.5.a	Reporting	§2103.12.k and Enforcement Order 3/28/90	The permittee shall report any event that causes the breakdown or unavailability of:	N/A			
V.K.5.a.1	Reporting		Any Claus plant, stripper, absorber column or ad compressor to be ready for immediate operation, or to be available as spare equipment;	Record Review	Y	C	
V.K.5.a.2	Reporting		Both a heat exchanger and its respective spare, as set forth in V.K.1.g.1) above; or	Record Review	Y	C	
V.K.5.a.3	Reporting		Both a pump and its respective spare, as set forth in V.K.1.g.2) above.	Record Review	Y	C	
V.K.5.b	Reporting	§2103.12.k and Enforcement Order 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each month shall be submitted to the Department:	Record Review	Y	C	
V.K.5.b.1	Reporting		For each day and for the month, the average grains of H2S per 100 dry of coke oven gas (COG) processed by the desulfurization system:	Record Review	Y	C	
V.K.5.b.1.a	Reporting		In the raw COG delivered;	Record Review	Y	C	
V.K.5.b.1.b	Reporting		In the clean COG;	Record Review	Y	C	
V.K.5.b.1.c	Reporting		In the tail gas; and	Record Review	Y	C	
V.K.5.b.1.d	Reporting		In the total of the clean COG and the tail gas;	Record Review	Y	C	
V.K.5.b.2	Reporting		The number of days on which the average grains H2S per 100 dry of COG (total of clean COG measurements and tail gas measurements) exceed the applicable standard, rounding off to the nearest 0.1 grain; and	Record Review	Y	C	
V.K.5.b.3	Reporting		The monthly percentage availability (on-line time) of the desulfurization system, based on the total hours of coke operations and the total hours that both the plant was fully available and all COG was normally processed; and	Record Review	Y	C	
V.K.5.b.4	Reporting		For each full or partial outage of the desulfurization system, including any full or partial resumption of the system;	N/A			
V.K.5.b.4.a	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.K.5.b.4.b	Reporting		The total time of each outage, and the total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.K.5.b.4.c	Reporting		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage;	Record Review	Y	C	
V.K.6	Work Practice Standards		None except as provided elsewhere in this permit.	N/A			
V.K.7	Additional Requirements		The permittee shall conduct an engineering evaluation of the SCOT Plant stack emissions within 8 months of permit issuance and submit a report to the Department within 30 days of completion of the evaluation. The engineering evaluation will include but not limited to the following:	Record Review	Y	C	

Title V Classification	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type (2)	
V.K.7.a	Additional Requirements		General review of existing equipment;	Record Review	Y	C	
V.K.7.b	Additional Requirements		General review of existing operating and maintenance procedures;	Record Review	Y	C	
V.K.7.c	Additional Requirements		Evaluation of gas combustion to ensure complete combustion; and	Record Review	Y	C	
V.K.7.d	Additional Requirements		Evaluation of the desulfurization process to determine factors affecting SO ₂ plant stack emissions	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.L.1.a	Restrictions	§2104.02.h	The permittee shall not operate, or allow to be operated, the Keystone cooling tower unless there is a mist eliminator installed, maintained and operated consistently with good air pollution control practice.	Engineering Judgement	Y	C	
V.L.1.b	Restrictions	§2103.12.a.	The permittee shall only cool non-contact water in the cooling tower.	Record Review	Y	C	
V.L.1.c	Restrictions	§2104.02.h	The permittee shall not operate, or allow to be operated, the Keystone cooling tower unless the water used for such cooling is equivalent to, or better than, the water quality standards established for the Monongahela River by regulations promulgated by the DEP under the Pennsylvania Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. 691.1 et seq., except that water from the Monongahela River may be used for such cooling.	Record Review	Y	C*	The certification contained in this report is based on the understanding that make-up water used for the quenching of coke will be "equivalent to, or better than, the water quality standards established for the Monongahela River by regulation promulgated by the DEP under the Pennsylvania Clean Streams Law, - except that water from the Monongahela River may be used for" such quenching make-up
V.L.2	Testing Requirements		None, except as provided elsewhere in this permit.	N/A			
V.L.3	Monitoring Requirements		None, except as provided elsewhere in this permit.	N/A			
V.L.4	Record Keeping Requirements		None, except as provided elsewhere in this permit.	N/A			
V.L.5	Reporting Requirements		None, except as provided elsewhere in this permit.	N/A			
V.L.6	Work Practice Standards		None except as provided elsewhere.	N/A			
V.L.7	Additional Requirements		None except as provided elsewhere.	N/A			

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				Method	V/ N	Yes Of

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.a	Restrictions	[§2105.06; RACT Plan 234]	At no time shall the permittee operate the by-products plant unless the clean coke oven gas blanketing system is being properly maintained and operated at all times while the plant process units blanketed by the system are emitting VOCs, with the exception of emergency or planned outages, repairs or maintenance.	Records Review	Y	C	
V.M.1.b	Restrictions	[§2105.06; RACT Plan 234]	All VOC emissions processed by the blanketing system shall be incinerated by combustion in the facilities coke batteries or boilers or by downstream consumers.	Procedures	Y	C	
V.M.1.c	Restrictions	[§61.132(a)(1)]	The permittee shall enclose and seal all openings on each process vessel, tar storage tank, and tar-intercepting sump.	Procedures	Y	C	
V.M.1.d	Restrictions	[§61.132(a)(2)]	The permittee shall duct gases from each process vessel, tar storage tank and tar-intercepting sump to the gas collection system, gas distribution system, or other enclosed point in the by-product recovery process where benzene in the gas will be recovered or destroyed. This control system shall be designed and operated for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined by the methods specified in Reference Method 21 of Appendix A, 40 CFR Part 60. This system can be designed as a closed, positive pressure, gas blanketing system.	Design Parameter	Y	C	
V.M.1.d.1	Restrictions		Except, the permittee may elect to install, operate, and maintain a pressure relief device, vacuum relief device, an access hatch, and a sampling port on each process vessel, tar storage tank and tar-intercepting sump. Each access hatch and sampling port must be equipped with a gasket and a cover, seal or lid that must be kept in a closed position at all times, unless in actual use.	Design Parameter	Y	C	
V.M.1.d.2	Restrictions		The permittee may elect to leave open to the atmosphere the portion of the liquid surface in each tar decanter necessary to permit operation of a sludge conveyor. If the permittee elects to maintain an opening on part of the liquid surface of the tar decanter, the permittee shall install, operate, and maintain a water leg seal on the tar decanter roof near the sludge discharge chute to ensure enclosure of the major portion of liquid surface not necessary for the operation of the sludge conveyor.	Engineering Judgement	Y	C	
V.M.1.e	Restrictions	[§61.132(d)]	The permittee shall comply with the requirements of V.M.1.c and V.M.1.d above, and V.M.3.a and V.M.3.b below for each benzene storage tank, BTX storage tank, light-oil storage tank, and excess ammonia-liquor storage tank.	Administrative Requirement	Y	C	
V.M.1.f	Restrictions	[§ 61.133(a)]	The permittee shall enclose and seal the liquid surface in the light oil sump to form a closed system to contain the emissions.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.1.f.1	Restrictions		Except, the permittee may elect to install, operate, and maintain a vent on the light-oil sump cover. Each vent pipe must be equipped with a water leg seal, a pressure relief device, or vacuum relief device.	Engineering Judgement	Y	C	
V.M.1.f.2	Restrictions		Except, the permittee may elect to install, operate, and maintain an access hatch on each light-oil sump cover. Each access hatch must be equipped with a gasket and a cover, seal, or lid that must be kept in a closed position at all times, unless in actual use.	Engineering Judgement	Y	C	
V.M.1.f.3	Restrictions		The light-oil sump cover may be removed for periodic maintenance but must be replaced (with seal) at completion of the maintenance operation.	Procedures	Y	C	
V.M.1.g	Restrictions	[§ 61.133(b)]	The venting of steam or other gases from the by-product process to the light-oil sump is not permitted.	Procedures	Y	C	
V.M.1.h	Restrictions	[§61.134(a)]	The permittee shall allow no ("zero") emissions from naphthalene processing, final coolers and final-cooler cooling tower.	Procedures	Y	C	
V.M.1.i	Restrictions	[§61.135(a) & (b)]	The permittee of equipment in benzene service shall comply with the requirements of 40 CFR Part 61, Subpart V, except as provided in V.M.1.j and V.M.3.d below Also, the provisions of §61.242–3 and §61.242–9 of 40 CFR Subpart V do not apply to 40 CFR 61, Subpart L.	Administrative Requirement	Y	C	
V.M.1.j	Restrictions	[§61.135(c)]	Each piece of equipment in benzene service to which 40 CFR 61, Subpart L applies shall be marked in such a manner that it can be distinguished readily from other pieces of equipment in benzene service.	Procedures	Y	C	
V.M.1.k	Restrictions	[§61.136(a)]	The permittee subject to the provisions of 40 CFR 61, Subpart L, shall demonstrate compliance with the requirements of V.M.1.c through V.M.1.j above and V.M.3.a through V.M.3.h below, except as provided under Conditions V.M.1.nn through V.M.1.uu below.	Administrative Requirement	Y	C	
V.M.1.l	Restrictions	[§61.136(b)]	Compliance with 40 CFR 61, Subpart L shall be determined by a review of records, review of performance test results, inspections, or any combination thereof, using the methods and procedures specified in V.M.2.a below.	Records Review	Y	C	
V.M.1.m	Restrictions	[§61.136(d)]	The permittee may request permission to use an alternative means of emission limitation to meet the requirements in Conditions V.M.1.c through V.M.1.g above, V.M.1.i and V.M.1.j above, and V.M.3.a through V.M.3.h below, V.M.1.l through V.M.1.t below, V.M.3.r through V.M.3.z below, V.M.3.ii through V.M.3.tt below and V.M.1.mm below.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.m.1	Restrictions		Permission to use an alternative means of emission limitation shall be requested as specified in §61.12(d).	Administrative Requirement	Y	C	
V.M.1.m.2	Restrictions		When the Administrator and the Department evaluates requests for permission to use alternative means of emission limitation for sources subject to Conditions V.M.1.c through V.M.1.g above and V.M.3.a through V.M.3.c below (except tar decanters) the Administrator and the Department shall compare test data for the means of emission limitation to a benzene control efficiency of 98 percent. For tar decanters, the Administrator and the Department shall compare test data for the means of emission limitation to a benzene control efficiency of 95 percent.	Administrative Requirement	Y	C	
V.M.1.m.3	Restrictions		For any requests for permission to use an alternative to the work practices required under Conditions V.M.1.i and V.M.1.j above, and V.M.3.d through V.M.3.h below, the provisions of Condition V.M.1.xx below shall apply.	Administrative Requirement	Y	C	
V.M.1.n	Restrictions	[§61.242-1(a)]	The permittee subject to the provisions of 40 CFR Part 61, Subpart V shall demonstrate compliance with the requirements of V.M.1.n through V.M.1.mm below, and V.M.3.i through V.M.3.tt below as required in 40 CFR 61.05, except as provided in Conditions V.M.1.nn through V.M.1.rr below and Conditions V.M.1.vv through V.M.1.zz below.	Administrative Requirement	Y	C	
V.M.1.o	Restrictions	[§61.242-1(b)]	Compliance with this 40 CFR 61, Subpart V shall be determined by review of records, review of performance test results, and inspection using the methods and procedures specified in V.M.3.uu through V.M.3.vv below.	Records Review	Y	C	
V.M.1.p	Restrictions	[§61.242-1(c)(1)]	The permittee may request a determination of alternative means of emission limitation to the requirements of §61.242-2; 61.242-3; 61.242-5; 61.242-6; 61.242-7; 61.242-8 and 61.242-11 as provided in §61.244.	Administrative Requirement	Y	C	
V.M.1.q	Restrictions	[§61.242-1(c)(2)]	If the Administrator and Department make a determination that a means of emission limitation is at least a permissible alternative to the requirements of §61.242-2; 61.242-3; 61.242-5; 61.242-6; 61.242-7; 61.242-8 or 61.242-11, an owner or operator shall comply with the requirements of that determination.	Administrative Requirement	Y	C	
V.M.1.r	Restrictions	[§61.242-1(d)]	Each piece of equipment to which 40 CFR 61, Subpart V applies shall be marked in such a manner that it can be distinguished readily from other pieces of equipment.	Procedures	Y	C	
V.M.1.s	Restrictions	[§61.242-1(e)]	Equipment that is in vacuum service is excluded from the requirements of V.M.1.t through V.M.1.mm below and V.M.3.i through V.M.1.rr below if it is identified as required in V.M.4.g.5) below.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.1.t	Restrictions	[§61.242-3(a)]	Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to atmosphere, except as provided in §61.242-1(c) and Conditions V.M.1.bb and V.M.1.cc below.	Design Parameter	Y	C	
V.M.1.u	Restrictions	[§61.242-3(b)]	Each compressor seal system as required in Condition V.M.1.t above shall be:	Design Parameter	Y	C	
V.M.1.u.1	Restrictions		Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or	Design Parameter	Y	C	
V.M.1.u.2	Restrictions		Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm below; or	Design Parameter	Y	C	
V.M.1.u.3	Restrictions		Equipped with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere.	Design Parameter	Y	C	
V.M.1.v	Restrictions	[§61.242-3(c)]	The barrier fluid shall not be in VHAP service and, if the compressor is covered by standards under 40 CFR part 60, shall not be in VOC service.	Procedures	Y	C	
V.M.1.w	Restrictions	[§61.242-3(d)]	Each barrier fluid system as described in Conditions V.M.1.t through V.M.1.v above shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	Design Parameter	Y	C	
V.M.1.x	Restrictions	[§61.242-3(e)(1)]	Each sensor as required in Condition V.M.1.w above shall be checked daily or shall be equipped with an audible alarm unless the compressor is located within the boundary of an unmanned plant site.	Procedures/Records Review	Y	C	
V.M.1.y	Restrictions	[§61.242-3(e)(2)]	The permittee shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.	Engineering Judgement	Y	C	
V.M.1.z	Restrictions	[§61.242-3(f)]	If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under Condition V.M.1.y above, a leak is detected.	Procedures	Y	C	
V.M.1.aa	Restrictions	[§61.242-3(g)]	When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Conditions V.M.3.dd through V.M.3.hh below. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures/Records Review	Y	C	
V.M.1.bb	Restrictions	[§61.242-3(h)]	A compressor is exempt from the requirements of Conditions V.M.1.t and V.M.1.u above if it is equipped with a closed-vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of V.M.3.ii through V.M.3.tt below and V.M.1.mm below, except as provided in Condition V.M.1.cc below.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.cc	Restrictions	§61.242-3(i)	Any Compressor that is designated, as described in Condition V.M.4.g.2) below, for no detectable emission as indicated by an instrument reading of less than 500 ppm above background is exempt from the requirements of paragraphs V.M.1.t through V.M.1.bb above if the compressor:	Design Parameter	Y	C	
V.M.1.cc.1	Restrictions		Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in V.M.3.vv below; and	Records Review	Y	C	
V.M.1.cc.2	Restrictions		Is tested for compliance with paragraph V.M.1.cc.1) above initially upon designation, annually, and at other times requested by the Administrator and the Department.	Procedures/Records Review	Y	C	
V.M.1.dd	Restrictions	§61.242-4(a)	Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in §61.245(c) or V.M.3.vv.	Procedures	Y	C	
V.M.1.ee	Restrictions	§61.242-5(a)	The permittee shall equip each sampling connection system with a closed-purge, closed loop, or closed vent system, except as provided in V.M.1.p and V.M.1.q. Gases displaced during filling of the sample container are not required to be collected or captured.	Design Parameter	Y	C	
V.M.1.ff	Restrictions	§61.242-5(b)	Each closed-purge, closed loop or closed vent system as required in Condition V.M.1.ee above shall:	Design Parameter	Y	C	
V.M.1.ff.1	Restrictions		Return the purged process fluid directly to the process line; or	Design Parameter	Y	C	
V.M.1.ff.2	Restrictions		Collect and recycle the purged process fluid; or	Design Parameter	Y	C	
V.M.1.ff.3	Restrictions		Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm below, or	Design Parameter	Y	C	
V.M.1.ff.4	Restrictions		Collect, store, and transport the purged process fluid to any of the following systems or facilities:	Design Parameter	Y	C	
V.M.1.ff.4.a	Restrictions		A waste management unit as defined in §63.111 if the waste management unit is subject to and operated in compliance with the provisions of 40 CFR Part 63, Subpart G, applicable to Group 1 wastewater streams; or	Administrative Requirement	Y	C	
V.M.1.ff.4.b	Restrictions		A treatment, storage, or disposal facility subject to regulation under 40 CFR Part 262, 264, 265, or 266; or	Administrative Requirement	Y	C	
V.M.1.ff.4.c	Restrictions		A facility permitted, licensed, or registered by a State to manage municipal or industrial solid waste, if the process fluids are not hazardous waste as defined in 40 CFR Part 261.	Administrative Requirement	Y	C	
V.M.1.gg	Restrictions	§61.242-5(c)	In-situ sampling systems and sampling systems without purges are exempt from the requirements of Conditions V.M.1.ee and V.M.1.ff above.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.hh	Restrictions	[§61.242-6(a)]	The permittee shall equip each open-ended valve or line with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 61.242-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.	Design Parameter	Y	C	
V.M.1.ii	Restrictions	[§61.242-6(b)]	Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.	Design Parameter	Y	C	
V.M.1.jj	Restrictions	[§61.242-6(c)]	When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with Condition V.M.1.hh above at all other times.	Procedures	Y	C	
V.M.1.kk	Restrictions	[§61.242-6(d)]	Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of Conditions V.M.1.hh through V.M.1.jj above.	Administrative Requirement	Y	C	
V.M.1.ll	Restrictions	[§61.242-6(e)]	Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in Conditions V.M.1.hh through V.M.1.jj above are exempt from the requirements of Conditions V.M.1.hh through V.M.1.jj above.	Administrative Requirement	Y	C	
V.M.1.mm	Restrictions	[§61.242-11(m)]	Closed vent systems and control devices used to comply with provisions of 40 CFR Part 61, Subpart V shall be operated at all times when emissions may be vented to them.	Procedures	Y	C	
V.M.1.nn	Restrictions	[§61.243-1(a)]	The permittee may elect to have all valves within a process unit to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.	Records Review	Y	C	
V.M.1.oo	Restrictions	[§61.243-1(b)]	The following requirements shall be met if the permittee decides to comply with an allowable percentage of valves leaking:	Administrative Requirement	Y	C	
V.M.1.oo.1	Restrictions		The permittee must notify the Administrator and the Department that the permittee has elected to have all valves within a process unit to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in Condition V.M.5.d below.	Report Submission	Y	C	
V.M.1.oo.2	Restrictions		A performance test as specified in Condition V.M.1.pp below shall be conducted initially upon designation, annually, and at other times requested by the Administrator and the Department.	Records Review	Y	C	
V.M.1.oo.3	Restrictions		If a valve leak is detected, it shall be repaired in accordance with Condition V.M.5.d below.	Procedures	Y	C	
V.M.1.pp	Restrictions	[§61.243-1(c)]	Performance tests shall be conducted in the following manner:	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.pp.1	Restrictions		All valves in VHAP service within the process unit shall be monitored within 1 week by the methods specified in Condition V.M.3.uu below.	Physical Inspection/Records Review	Y	C	
V.M.1.pp.2	Restrictions		If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	Physical Inspection/Records Review	Y	C	
V.M.1.pp.3	Restrictions		The leak percentage shall be determined by dividing the number of valves in VHAP service for which leaks are detected by the number of valves in VHAP service within the process unit.	Procedures	Y	C	
V.M.1.qq	Restrictions	[[§61.243-1(d)]]	The permittee who elects to have all valves comply with this alternative standard shall not have a process unit with a leak percentage greater than 2.0 percent.	Records Review	Y	C	
V.M.1.rr	Restrictions	[[§61.243-1(e)]]	If the permittee decides no longer to comply with Conditions V.M.1.nn through V.M.1.qq above, the permittee must notify the Administrator and the Department in writing that the work practice standard described in Conditions V.M.3.r through V.M.3.v below will be followed.	Report Submission	Y	C	
V.M.1.ss	Restrictions	[[§61.243-2(a)(1)]]	The permittee may elect for all valves within a process unit to comply with one of the alternative work practices specified in Conditions V.M.1.oo.2) and V.M.1.oo.3) above.	Engineering Judgement	Y	C	
V.M.1.tt	Restrictions	[[§61.243-2(a)(2)]]	The permittee shall notify the Administrator and the Department before implementing one of the alternative work practices, as specified in Condition V.M.3.u below.	Report Submission	Y	C	
V.M.1.uu	Restrictions	[[§61.243-2(b)]]	The permittee shall:	Administrative Requirement	Y	C	
V.M.1.uu.1	Restrictions		Comply initially with the requirements for valves, as described in Conditions V.M.3.r through V.M.3.y below.	Administrative Requirement	Y	C	
V.M.1.uu.2	Restrictions		After 2 consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, an owner or operator may begin to skip one of the quarterly leak detection periods for the valves in VHAP service.	Records Review	Y	C	
V.M.1.uu.3	Restrictions		After five consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, an owner or operator may begin to skip three of the quarterly leak detection periods for the valves in VHAP service.	Records Review	Y	C	
V.M.1.uu.4	Restrictions		If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the requirements as described in Conditions V.M.3.r through V.M.3.y below but may again elect to use this section.	Records Review	Y	C	
V.M.1.vv	Restrictions	[[§61.244(a)]]	Permission to use an alternative means of emission limitation under section 112(e)(3) of the Clean Air Act shall be governed by the procedures in Conditions V.M.1.ww through V.M.1.zz below:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.1.ww	Restrictions	[§61.244(b)]	Where the standard is an equipment, design, or operational requirement:	Administrative Requirement	Y	C	
V.M.1.ww.1	Restrictions		The permittee applying for permission shall be responsible for collecting and verifying test data for an alternative means of emission limitation to test data for the equipment, design, and operational requirements.	Records Review	Y	C	
V.M.1.ww.2	Restrictions		The Administrator and the Department may condition the permission on requirements that may be necessary to assure operation and maintenance to achieve the same emission reduction as the equipment, design, and operational requirements.	Engineering Judgement	Y	C	
V.M.1.xx	Restrictions	[§61.244(c)]	Where the standard is a work practice:	Administrative Requirement	Y	C	
V.M.1.xx.1	Restrictions		Each owner or operator applying for permission shall be responsible for collecting and verifying test data for an alternative means of emission limitation.	Process Knowledge/Records Review	Y	C	
V.M.1.xx.2	Restrictions		For each source for which permission is requested, the emission reduction achieved by the required work practices shall be demonstrated for a minimum period of 12 months.	Records Review	Y	C	
V.M.1.xx.3	Restrictions		For each source for which permission is requested, the emission reduction achieved by the alternative means of emission limitation shall be demonstrated.	Procedures	Y	C	
V.M.1.xx.4	Restrictions		Each owner or operator applying for permission shall commit in writing each source to work practices that provide for emission reductions equal to or greater than the emission reductions achieved by the required work practices.	Administrative Requirement	Y	C	
V.M.1.xx.5	Restrictions		The Administrator and the Department will compare the demonstrated emission reduction for the alternative means of emission limitation to the demonstrated emission reduction for the required work practices and will consider the commitment in conditions V.M.1.xx.4) above.	Administrative Requirement	Y	C	
V.M.1.xx.6	Restrictions		The Administrator and the Department may condition the permission on requirements that may be necessary to assure operation and maintenance to achieve the same emission reduction as the required work practices of 40 CFR 61, Subpart V.	Administrative Requirement	Y	C	
V.M.1.yy	Restrictions	[§61.244(d)]	An owner or operator may offer a unique approach to demonstrate the alternative means of emission limitation.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.zz	Restrictions	[\$61.244(e)]	Manufacturers of equipment used to control equipment leaks of a VHAP may apply to the Administrator and the Department for permission for an alternative means of emission limitation that achieves a reduction in emissions of the VHAP achieved by the equipment, design, and operational requirements of 40 CFR 61, Subpart V. The Administrator and Department will grant permission according to the provisions of conditions V.M.1.ww through V.M.1.yy above.	Administrative Requirement	Y	C	
V.M.1.aaa	Restrictions	[61.342(a)]	If the total annual benzene quantity from facility waste is less than 10 megagrams per year (Mg/yr) (11 ton/yr) the permittee shall be exempt from the requirements of paragraphs §61.342(b) and (c). The total annual benzene quantity from facility waste is the sum of the annual benzene quantity for each waste stream at the facility that has a flow-weighted annual average water content greater than 10 percent or that is mixed with water, or other wastes, at any time and the mixture has an annual average water content greater than 10 percent. The benzene quantity in a waste stream is to be counted only once without multiple counting if other waste streams are mixed with or generated from the original waste stream. Other specific requirements for calculating the total annual benzene waste quantity are as follows:	Records Review	Y	C	
V.M.1.aaa.1	Restrictions		Wastes that are exempted from control under §§ 61.342(c)(2) and 61.342(c)(3) are included in the calculation of the total annual benzene quantity if they have an annual average water content greater than 10 percent, or if they are mixed with water or other wastes at any time and the mixture has an annual average water content greater than 10 percent.	Records Review	Y	C	
V.M.1.aaa.2	Restrictions		The benzene in a material subject to 40 CFR 61, Subpart FF that is sold is included in the calculation of the total annual benzene quantity if the material has an annual average water content greater than 10 percent.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.1.aaa.3	Restrictions		Benzene in wastes generated by remediation activities conducted at the facility, such as the excavation of contaminated soil, pumping and treatments of groundwater, and the recovery of product from soil or groundwater, are not included in the calculation of total annual benzene quantity for that facility. If the facility's total annual benzene quantity is 10 Mg/yr (11 ton/yr) or more, wastes generated by remediation activities are subject to the requirements of §61.342(c) through 61.342(h). If the facility is managing remediation waste generated offsite, the benzene in this waste shall be included in the calculation of total annual benzene quantity in facility waste, if the waste streams have an annual average water content greater than 10 percent, or if they are mixed with water or other wastes at any time and the mixture has an annual average water content greater than 10 percent.	Records Review	Y	C	
			The total annual benzene quantity is determined based upon the quantity of benzene in the waste before any waste treatment occurs to remove the benzene except as specified in Conditions V.M.2.d.1)a)i) through V.M.2.d.1)a)iii) below.		Y	C	
V.M.1.bbb	Restrictions	[§2105.12.b]	No person shall place or store, or allow to be placed or stored, a volatile organic compound having a vapor pressure greater than 1.5 psia under actual storage conditions in any stationary tank, reservoir, or other container with a capacity greater than 40,000 gallons, unless such tank, reservoir, or other container is a pressure tank capable of maintaining working pressure sufficient to at all times prevent vapor or gas loss to the atmosphere or is equipped with:	Procedures	Y	C	
V.M.1.bbb.1	Restrictions		An external or internal floating roof, except that this control equipment shall not be permitted if the volatile organic compounds have a vapor pressure of 11.0 psia or greater under actual storage conditions; or	Records Review	Y	C	
V.M.1.bbb.2	Restrictions		A vapor recovery and disposal system reducing uncontrolled emissions of volatile organic compounds by at least 90% by weight. Compliance testing shall be done in accordance with the provisions of §2107.04 of this Article.	Design Parameter	Y	C	
V.M.1.ccc	Restrictions	[ACHD Installation Permit 0052-I004a and §2102.04.b.6]	The permittee shall not operate or allow to be operated methanol storage tanks V-400 and V-410 unless gas blanketing system reducing emissions of VOC by at least 98% by weight is in place and operating.	Design Parameter/Records Review	Y	C	
V.M.1.ddd	Restrictions	[ACHD Installation Permit 0052-I004a and §2102.04.b.6]	The throughput for each methanol storage tank V-400 and V-410 shall not exceed 867,000 gallons per year, for the tank V-430 (MEA/methanol tank) throughput shall not exceed 160,000gallons per year.	Design Parameter	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.1.eee	Restrictions	[§2103.13(d)]	Per General Condition III.17 above, the permittee shall not reactivate any tank that has been out of operation for a period of one year or more unless the permittee has submitted a reactivation plan request to, and received a <u>written</u> reactivation plan approval from the Department.	Report Submission	Y	C	
V.M.1.eee.1	Restrictions	[§2103.13(d)(5)]	The reactivation of a tank that has been deactivated for more than ten (10) years shall constitute a new source under Article XXI requiring the issuance of a new source Installation Permit.	Administrative Requirement	Y	C	
V.M.1.eee.2	Restrictions	[§2103.13(d)(7)]	All tanks deactivated for more than one (1) year shall constitute new sources upon reactivation unless the permittee, by no later than one (1) year following actual deactivation, submits a maintenance plan for the tank to be implemented during the period of deactivation.	Report Submission	Y	C	
V.M.1.eee.3	Restrictions	[§2103.13(d)(8)]	Any reactivation plan issued for a tank which has been deactivated for more than five (5) years shall require the implementation of BACT prior to actual reactivation.	Administrative Requirement	Y	C	
V.M.1.fff	Restrictions	[§2105.03; Installation Permit 91-I-0021 P)]	Emissions Limitations: Emissions from sources in the by-products recovery area and regulated by the benzene NESHAPS (40 CFR Part 61 Subpart L) shall not exceed the limits listed in Table V-M-1 at any time:	Records Review	Y	C	
V.M.1.fff	Restrictions		POLLUTANT ANNUAL LIMIT		Y	C	
V.M.1.fff	Restrictions		VOC 68.0		Y	C	
V.M.1.fff	Restrictions		Benzene 54.0		Y	C	
V.M.1.fff	Restrictions		A year is defined as any consecutive 12-month period		Y	C	
V.M.2.a	Testing	[§61.137(b)]	To determine whether or not a piece of equipment is in benzene service, the methods in V.M.3.ww through V.M.3.yy below shall be used, except that, for exhausters, the percent benzene shall be 1 percent by weight, rather than the 10 percent by weight described in Conditions V.M.3.ww through V.M.3.vv below.	Records Review	Y	C	
V.M.2.b	Testing	[§61.355(a)]	The permittee shall determine the total annual benzene quantity from facility waste by the following procedure:	Administrative Requirement	Y	C	
V.M.2.b.1	Testing		For each waste stream subject to this 40 CFR 61, Subpart FF having a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in Condition V.M.1.aaa above, the permittee shall:	Records Review	Y	C	
V.M.2.b.1.a	Testing		Determine the annual waste quantity for each waste stream using the procedures specified in paragraph V.M.2.c).	Records Review	Y	C	
V.M.2.b.1.b	Testing		Determine the flow-weighted annual average benzene concentration for each waste stream using the procedures specified in paragraph V.M.2.c).	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.2.b.1.c	Testing		Calculate the annual benzene quantity for each waste stream by multiplying the annual waste quantity of the waste stream times the flow-weighted annual average benzene concentration.	Records Review	Y	C	
V.M.2.b.2	Testing		Total annual benzene quantity from facility waste is calculated by adding together the annual benzene quantity for each waste stream generated during the year and the annual benzene quantity for each process unit turnaround waste annualized according to Condition V.M.2.b.4) below.	Records Review	Y	C	
V.M.2.b.3	Testing		If the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr (11 ton/yr), then the permittee shall comply with the requirements of §61.342 (c), (d), or (e).	Records Review	Y	C	
V.M.2.b.4	Testing		If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the permittee shall:	Records Review	Y	C	
V.M.2.b.4.a	Testing		Comply with the recordkeeping requirements of V.M.4.o below and reporting requirements of V.M.5.e below; and	Administrative Requirement	Y	C	
V.M.2.b.4.b	Testing		Repeat the determination of total annual benzene quantity from facility waste at least once per year and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more.	Records Review	Y	C	
V.M.2.b.5	Testing		If the total annual benzene quantity from facility waste is less than 1 Mg/yr (1.1 ton/yr), then the permittee shall:	Records Review	Y	C	
V.M.2.b.5.a	Testing		Comply with the recordkeeping requirements of V.M.4.o below and reporting requirements of V.M.5.e below; and	Procedures	Y	C	
V.M.2.b.5.b	Testing		Repeat the determination of total annual benzene quantity from facility waste whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more.	Records Review	Y	C	
V.M.2.b.6	Testing		The benzene quantity in a waste stream that is generated less than one time per year, except as provided for process unit turnaround waste in condition V.M.2.c.4) below, shall be included in the determination of total annual benzene quantity from facility waste for the year in which the waste is generated unless the waste stream is otherwise excluded from the determination of total annual benzene quantity from facility waste in accordance with conditions V.M.2.b through V.M.2.d. The benzene quantity in this waste stream shall not be annualized or averaged over the time interval between the activities that resulted in generation of the waste, for purposes of determining the total annual benzene quantity from facility waste.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.2.c	Testing	[\$61.355(b)]	The permittee shall determine the annual waste quantity at the point of waste generation, unless otherwise provided in Conditions V.M.2.c.(1) through (4) by one of the methods given in Conditions V.M.2.c.5) through 7) below	Procedures	Y	C	
V.M.2.c.1	Testing		The determination of annual waste quantity for sour water streams that are processed in sour water strippers shall be made at the point that the water exits the sour water stripper.	Procedures	Y	C	
V.M.2.c.2	Testing		The determination of annual waste quantity for wastes at coke by-product plants subject to and complying with the control requirements of §61.132, §61.133, §61.134, or §61.139 of 40 CFR subpart L shall be made at the location that the waste stream exits the process unit component or waste management unit controlled by that subpart or at the exit of the ammonia still, provided that the following conditions are met:	Procedures	Y	C	
V.M.2.c.2.i	Testing		The transfer of wastes between units complying with the control requirements of 40 CFR Part 61, Subpart L, process units, and the ammonia still is made through hard piping or other enclosed system.	Design Parameter	Y	C	
V.M.2.c.2.ii	Testing		The ammonia still meets the definition of a sour water stripper in §61.341.	Records Review	Y	C	
V.M.2.c.3	Testing		The determination of annual waste quantity for wastes that are received at hazardous waste treatment, storage, or disposal facilities from offsite shall be made at the point where the waste enters the hazardous waste treatment, storage, or disposal facility.	Procedures	Y	C	
V.M.2.c.4	Testing		The determination of annual waste quantity for each process unit turnaround waste generated only at 2 year or greater intervals, may be made by dividing the total quantity of waste generated during the most recent process unit turnaround by the time period (in the nearest tenth of a year) between the turnaround resulting in generation of the waste and the most recent preceding process turnaround for the unit. The resulting annual waste quantity shall be included in the calculation of the annual benzene quantity as provided in V.M.2.b.1)c) above for the year in which the turnaround occurs and for each subsequent year until the unit undergoes the next process turnaround. For estimates of total annual benzene quantity as specified in the 90-day report, required under §61.357(a)(1), the owner or operator shall estimate the waste quantity generated during the most recent turnaround, and the time period between turnarounds in accordance with good engineering practices.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
			If the owner or operator chooses not to annualize process unit turnaround waste, as specified in this paragraph, then the process unit turnaround waste quantity shall be included in the calculation of the annual benzene quantity for the year in which the turnaround occurs.		Y	C	
V.M.2.c.5	Testing		Select the highest annual quantity of waste managed from historical records representing the most recent 5 years of operation or, if the facility has been in service for less than 5 years but at least 1 year, from historical records representing the total operating life of the facility;	Records Review	Y	C	
V.M.2.c.6	Testing		Use the maximum design capacity of the waste management unit; or	Procedures	Y	C	
V.M.2.c.7	Testing		Use measurements that are representative of maximum waste generation rates.	Procedures	Y	C	
V.M.2.d	Testing	[\$61.355(c)]	For the purposes of the calculation required by paragraph V.M.2.b above, the permittee shall determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in paragraph V.M.2.d.1) below using either of the methods given in paragraphs V.M.2.e or V.M.2.f below.	Administrative Requirement	Y	C	
V.M.2.d.1	Testing		The determination of flow-weighted annual average benzene concentration shall meet all of the following criteria:	Administrative Requirement	Y	C	
V.M.2.d.1.a	Testing		The determination shall be made at:	Administrative Requirement	Y	C	
V.M.2.d.1.a.i	Testing		The location that the waste stream exits the process unit component or waste management unit controlled by 40 CFR Part 61, Subpart L or at the exit of the ammonia still, provided that the following conditions are met:	Physical Inspection/Records Review	Y	C	
V.M.2.d.1.a.i.1	Testing		The transfer of wastes between units complying with the control requirements of 40 CFR Part 61, Subpart L, process units, and the ammonia still is made through hard piping or other enclosed system.	Design Parameter	Y	C	
V.M.2.d.1.a.i.2	Testing		The ammonia still meets the definition of a sour water stripper in §61.341.	Records Review	Y	C	
V.M.2.d.1.a.ii	Testing		The determination for wastes that are received from offsite shall be made at the point where the waste enters the hazardous waste treatment, storage, or disposal facility.	Physical Inspection/Records Review	Y	C	
V.M.2.d.1.a.iii	Testing		The determination of flow-weighted annual average benzene concentration for process unit turnaround waste shall be made using either of the methods given in paragraphs V.M.2.e or V.M.2.f below. The resulting flow-weighted annual average benzene concentration shall be included in the calculation of annual benzene quantity as provided in paragraph V.M.2.b.1)c) above for the year in which the turnaround occurs and for each subsequent year until the unit undergoes the next process unit turnaround.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.2.d.1.b	Testing		Volatilization of the benzene by exposure to air shall not be used in the determination to reduce the benzene concentration.	Procedures	Y	C	
V.M.2.d.1.c	Testing		Mixing or diluting the waste stream with other wastes or other materials shall not be used in the determination -- to reduce the benzene concentration.	Procedures	Y	C	
V.M.2.d.1.d	Testing		The determination shall be made prior to any treatment of the waste that removes benzene, except as specified in paragraphs V.M.2.b.1)a) above.	Procedures	Y	C	
V.M.2.d.1.e	Testing		For wastes with multiple phases, the determination shall provide the weighted-average benzene concentration based on the benzene concentration in each phase of the waste and the relative proportion of the phases.	Records Review	Y	C	
V.M.2.e	Testing	[\$61.355(c)(2)]	The permittee shall provide sufficient information to document the flow-weighted annual average benzene concentration of each waste stream. Examples of information that could constitute knowledge include material balances, records of chemical purchases, or previous test results provided the results are still relevant to the current waste stream conditions. If test data are used, then the permittee shall provide documentation describing the testing protocol and the means by which sampling variability and analytical variability were accounted for in the determination of the flow-weighted annual average benzene concentration for the waste stream. When the permittee and the Administrator and the Department do not agree on determinations of the flow-weighted annual average benzene concentration based on knowledge of the waste, the procedures in paragraph V.M.2.f below shall be used to resolve the disagreement.	Records Review	Y	C	
V.M.2.f	Testing	[\$61.355(c)(3)]	Measurements of the benzene concentration in the waste stream in accordance with the following procedures:	Records Review	Y	C	
V.M.2.f.1	Testing		Collect a minimum of three representative samples from each waste stream. Where feasible, samples shall be taken from an enclosed pipe prior to the waste being exposed to the atmosphere.	Direct Measurement	Y	C	
V.M.2.f.2	Testing		For waste in enclosed pipes, the following procedures shall be used:	Administrative Requirement	Y	C	
V.M.2.f.2.a	Testing		Samples shall be collected prior to the waste being exposed to the atmosphere in order to minimize the loss of benzene prior to sampling.	Procedures	Y	C	
V.M.2.f.2.b	Testing		A static mixer shall be installed in the process line or in a by-pass line unless the owner or operator demonstrates that installation of a static mixer in the line is not necessary to accurately determine the benzene concentration of the waste stream.	Design Parameter	Y	C	
V.M.2.f.2.c	Testing		The sampling tap shall be located within two pipe diameters of the static mixer outlet.	Design Parameter	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.2.f.2.d	Testing		Prior to the initiation of sampling, sample lines and cooling coil shall be purged with at least four volumes of waste.	Procedures	Y	C	
V.M.2.f.2.e	Testing		After purging, the sample flow shall be directed to a sample container and the tip of the sampling tube shall be kept below the surface of the waste during sampling to minimize contact with the atmosphere.	Procedures	Y	C	
V.M.2.f.2.f	Testing		Samples shall be collected at a flow rate such that the cooling coil is able to maintain a waste temperature less than 10 °C (50 °F).	Procedures	Y	C	
V.M.2.f.2.g	Testing		After filling, the sample container shall be capped immediately (within 5 seconds) to leave a minimum headspace in the container.	Procedures	Y	C	
V.M.2.f.2.h	Testing		The sample containers shall immediately be cooled and maintained at a temperature below 10 °C (50 °F) for transfer to the laboratory.	Procedures	Y	C	
V.M.2.f.3	Testing		When sampling from an enclosed pipe is not feasible, a minimum of three representative samples shall be collected in a manner to minimize exposure of the sample to the atmosphere and loss of benzene prior to sampling.	Direct Measurement	Y	C	
V.M.2.f.4	Testing		Each waste sample shall be analyzed using one of the following test methods for determining the benzene concentration in a waste stream:	Administrative Requirement	Y	C	
V.M.2.f.4.a	Testing		Method 8020, Aromatic Volatile Organics, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in §61.18 of 40 CFR 61);	Procedures	Y	C	
V.M.2.f.4.b	Testing		Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photo-ionization and Electrolytic Conductivity Detectors in Series in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in §61.18 of 40 CFR 61);	Procedures	Y	C	
V.M.2.f.4.c	Testing		Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in § 61.18 of 40 CFR 61);	Procedures	Y	C	
V.M.2.f.4.d	Testing		Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in § 61.18 of 40 CFR 61);	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.2.f.4.e	Testing		Method 602, Purgeable Aromatics, as described in 40 CFR part 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA methods; or	Procedures	Y	C	
V.M.2.f.4.f	Testing		Method 624, Purgeables, as described in 40 CFR Part 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA method.	Procedures	Y	C	
V.M.2.f.5	Testing		<p>The flow-weighted annual average benzene concentration shall be calculated by averaging the results of the sample analyses as follows:</p> $\bar{C} = \frac{1}{Q_t} \times \sum_{i=1}^n (Q_i)(C_i)$ <p>C =Flow-weighted annual average benzene concentration for waste stream, ppmw. Qt=Total annual waste quantity for waste stream, kg/yr (lb/yr). n=Number of waste samples (at least 3). Qi=Annual waste quantity for waste stream represented by Ci, kg/yr (lb/yr). Ci=Measured concentration of benzene in waste sample i, ppmw.</p>	Records Review	Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
V.M.3.a	Monitoring	§61.132(b)]	Following the installation of any control equipment used to meet the requirements of V.M.1.c and V.M.1.d above, the permittee shall monitor the connections and seals on each control system to determine if it is operating with no detectable emissions, using Reference Method 21 of 40 CFR Part 60, Appendix A and procedures specified in §61.245(c), and shall visually inspect each source (including sealing materials) and the ductwork of the control system for evidence of visible defects such as gaps or tears. This monitoring and inspection shall be conducted on a semiannual basis and at any other time after the control system is re-pressurized with blanketing gas following removal of the cover or opening of the access hatch.	Physical Inspection/Records Review	Y	C	
V.M.3.a.1	Monitoring		If an instrument reading indicates an organic chemical concentration more than 500 ppm above a background concentration, as measured by Method 21, a leak is detected.	Records Review	Y	C	
V.M.3.a.2	Monitoring		If visible defects such as gaps in sealing materials are observed during a visual inspection, a leak is detected	Records Review	Y	C	
V.M.3.a.3	Monitoring		When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected	Procedures	Y	C	
V.M.3.a.4	Monitoring		A first attempt at repair of any leak or visible defect shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.b	Monitoring	[\$61.132(c)]	Following the installation of any control system used to meet the requirements of Conditions V.M.1.c and V.M.1.d above, the permittee shall conduct a maintenance inspection of the control system on an annual basis for evidence of system abnormalities, such as blocked or plugged lines, sticking valves, plugged condensate traps, and other maintenance defects that could result in abnormal system operation. The permittee shall make a first attempt at repair within 5 days, with repair within 15 days of detection.	Physical Inspection/Records Review	Y	C	
V.M.3.c	Monitoring	[\$61.133(c)]	Following the installation of any control equipment used to meet the requirements of Condition V.M.1.f above, the permittee shall monitor the connections and seals on each control system to determine if it is operating with no detectable emissions, using Method 21 (40 CFR part 60, appendix A) and the procedures specified in V.M.3.vv below, and shall visually inspect each source (including sealing materials) for evidence of visible defects such as gaps or tears. This monitoring and inspection shall be conducted semiannually and at any other time the cover is removed.	Physical Inspection/Records Review	Y	C	
V.M.3.c.1	Monitoring		If an instrument reading indicates an organic chemical concentration more than 500 ppm above a background concentration, as measured by Method 21, a leak is detected.	Records Review	Y	C	
V.M.3.c.2	Monitoring		If visible defects such as gaps in sealing materials are observed during a visual inspection, a leak is detected.	Procedures	Y	C	
V.M.3.c.3	Monitoring		When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected.	Procedures	Y	C	
V.M.3.c.4	Monitoring		A first attempt at repair of any leak or visible defect shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.d	Monitoring	[\$61.135(d)]	Each exhauster shall be monitored quarterly to detect leaks by the methods specified in V.M.3.uu below except as provided in §61.136(d) and paragraphs V.M.3.e through V.M.3.g below.	Records Review	Y	C	
V.M.3.d.1	Monitoring		If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	Records Review	Y	C	
V.M.3.d.2	Monitoring		When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in V.M.3.aa and V.M.3.bb below. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.e	Monitoring	[\$61.135(e)]	Each exhauster equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluids to the atmosphere is exempt from the requirements of Condition V.M.3.d above provided the following requirements are met:	Design Parameter	Y	C	
V.M.3.e.1	Monitoring		Each exhauster seal system is:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.e.1.a	Monitoring		Operated with the barrier fluid at a pressure that is greater than the exhauster stuffing box pressure; or	Design Parameter	Y	C	
V.M.3.e.1.b	Monitoring		Equipped with a barrier fluid system that is connected by a closed vent system to a control device that complies with the requirements of Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm above; or	Design Parameter	Y	C	
V.M.3.e.1.c	Monitoring		Equipped with a system that purges the barrier fluid into a process stream with zero benzene emissions to the atmosphere.	Design Parameter	Y	C	
V.M.3.e.2	Monitoring		The barrier fluid is not in benzene service.	Procedures	Y	C	
V.M.3.e.3	Monitoring		Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	Design Parameter	Y	C	
V.M.3.e.4	Monitoring		Each sensor as described in Condition V.M.3.e.3) above:	Administrative Requirement	Y	C	
V.M.3.e.4.a	Monitoring		Shall be checked daily or shall be equipped with an audible alarm.	Procedures/Design Parameter	Y	C	
V.M.3.e.4.b	Monitoring		The permittee shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.	Records Review	Y	C	
V.M.3.e.5	Monitoring		If the sensor indicates failure of the seal system, the barrier system, or both (based on the criterion determined under Condition V.M.3.e.4)b) above, a leak is detected.	Records Review	Y	C	
V.M.3.e.6	Monitoring		When a leak is detected:	Administrative Requirement	Y	C	
V.M.3.e.6.a	Monitoring		It shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Conditions V.M.3.dd through V.M.3.hh below.	Procedures	Y	C	
V.M.3.e.6.b	Monitoring		A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.f	Monitoring	[§61.135(f)]	An exhauster is exempt from the requirements of Condition V.M.3.d above if it is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm above except as provided in Condition V.M.3.g.1) below.	Design Parameter	Y	C	
V.M.3.g	Monitoring	[§61.135(g)]	Any exhauster that is designated, as described in V.M.4.g below for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Condition V.M.3.d above if the exhauster:	Records Review	Y	C	
V.M.3.g.1	Monitoring		Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in §61.245(c); and	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.3.g.2	Monitoring		Is tested for compliance with Condition V.M.3.g.1) above initially upon designation, annually, and at other times requested by the Administrator and the Department.	Records Review	Y	C	
V.M.3.h	Monitoring	§61.135(h)	Any exhauster that is in vacuum service is excluded from the requirements of this 40 CFR 61, Subpart L if it is identified as required in Condition V.M.4.g.5) below.	Design Parameter	Y	C	
V.M.3.i	Monitoring	§61.242-2(a)	Each pump shall be:	Administrative Requirement	Y	C	
V.M.3.i.1	Monitoring		Monitored monthly to detect leaks by the methods specified in Condition V.M.3.uu below, except as provided §61.242-1(c) and V.M.1.r and V.M.1.s above.	Records Review	Y	C	
V.M.3.i.2	Monitoring		Checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.	Physical Inspection/Records Review	Y	C	
V.M.3.j	Monitoring	§61.242-2(b)	If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If there are indications of liquids dripping from the pump seal, a leak is detected.	Records Review	Y	C	
V.M.3.k	Monitoring	§61.242-2(c)	When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Conditions V.M.3.dd through V.M.3.hh below. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.l	Monitoring	§61.242-2(d)	Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements in Conditions V.M.3.i and V.M.3.j above, provided the following requirements are met:	Design Parameter	Y	C	
V.M.3.l.1	Monitoring		Each dual mechanical seal system is:	Administrative Requirement	Y	C	
V.M.3.l.1.a	Monitoring		Operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or	Procedures	Y	C	
V.M.3.l.1.b	Monitoring		Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of §61.242-11; or	Design Parameter	Y	C	
V.M.3.l.1.c	Monitoring		Equipped with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere.	Design Parameter	Y	C	
V.M.3.l.2	Monitoring		The barrier fluid is not in VHAP service and, if the pump is covered by standards under 40 CFR part 60, is not in VOC service.	Records Review	Y	C	
V.M.3.l.3	Monitoring		Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.	Design Parameter	Y	C	
V.M.3.l.4	Monitoring		Each pump is checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.1.4.a	Monitoring		If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, the pump shall be monitored as specified in §61.245 to determine the presence of VOC and VHAP in the barrier fluid.	Records Review	Y	C	
V.M.3.1.4.b	Monitoring		If the monitor reading (taking into account any background readings) indicates the presence of VHAP, a leak is detected. For the purpose of this paragraph, the monitor may be calibrated with VHAP, or may employ a gas chromatography column to limit the response of the monitor to VHAP, at the option of the owner or operator.	Records Review	Y	C	
V.M.3.1.4.c	Monitoring		If an instrument reading of 10,000 ppm or greater (total VOC) is measured, a leak is detected.	Records Review	Y	C	
V.M.3.1.5	Monitoring		Each sensor as described in Condition V.M.3.1.3) above is checked daily or is equipped with an audible alarm.	Procedures/Design Parameter	Y	C	
V.M.3.1.6	Monitoring		Based on design considerations and operating experience, the permittee determines:	Administrative Requirement	Y	C	
V.M.3.1.6.a	Monitoring		Criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both.	Procedures	Y	C	
V.M.3.1.6.b	Monitoring		If indications of liquids dripping from the pump seal exceed the criteria established in Condition V.M.3.1.6)a) above, or if, based on the criteria established in Condition V.M.3.1.6)a) above, the sensor indicates failure of the seal system, the barrier fluid system, or both, a leak is detected.	Records Review	Y	C	
V.M.3.1.6.c	Monitoring		When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in V.M.3.dd through V.M.3.hh below.	Procedures	Y	C	
V.M.3.1.6.d	Monitoring		A first attempt at repair shall be made no later than five calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.m	Monitoring	[§61.242-2(e)]	Any pump that is designated, as described in V.M.4.g below, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements in Conditions V.M.3.i, V.M.3.k and V.M.3.l above if the pump:	Records Review	Y	C	
V.M.3.m.1	Monitoring		Has no externally actuated shaft penetrating the pump housing,	Design Parameter	Y	C	
V.M.3.m.2	Monitoring		Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in §61.245(c), and	Records Review	Y	C	
V.M.3.m.3	Monitoring		Is tested for compliance with Condition V.M.3.m.2) above initially upon designation, annually, and at other times requested by the Administrator and the Department.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.3.n	Monitoring	[§61.242-2(f)]	If any pump is equipped with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a process or fuel gas system or to a control device that complies with the requirements of Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm above, it is exempt from the requirements of Conditions V.M.3.i through V.M.3.m above.	Design Parameter	Y	C	
V.M.3.o	Monitoring	[§61.242-2(g)]	Any pump that is designated, as described in Condition V.M.4.h.1) below, as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of Conditions V.M.3.i and V.M.3.1.4) through V.M.3.1.6) above if:	Records Review	Y	C	
V.M.3.o.1	Monitoring		The owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Condition V.M.3.i above; and	Engineering Judgement	Y	C	
V.M.3.o.2	Monitoring		The owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in Condition V.M.3.k above if a leak is detected.	Procedures	Y	C	
V.M.3.p	Monitoring	[61.242-4(b)(1)]	After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in Conditions V.M.3.dd through V.M.3.hh below.	Records Review	Y	C	
V.M.3.q	Monitoring	[§61.242-4(b)(2)]	No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Condition V.M.3.vv below.	Procedures	Y	C	
V.M.3.r	Monitoring	[§61.242-7(a)]	Each valve shall be monitored monthly to detect leaks by the method specified in V.M.3.uu below and shall comply with Conditions V.M.3.s through V.M.3.v below, except as provided in Conditions V.M.3.w, V.M.3.x, and V.M.3.y below, V.M.1.nn through V.M.1.uu above and §61.242-1(c).	Procedures	Y	C	
V.M.3.s	Monitoring	[§61.242-7(b)]	If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	Records Review	Y	C	
V.M.3.t	Monitoring	[§61.242-7(c)]	Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.	Procedures/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.u	Monitoring	[§61.242-7(d)]	When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in Conditions V.M.3.dd through V.M.3.hh below. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.v	Monitoring	[§61.242-7(e)]	First attempts at repair include, but are not limited to, the following best practices where practicable:	Administrative Requirement	Y	C	
V.M.3.v.1	Monitoring		Tightening of bonnet bolts;	Procedures	Y	C	
V.M.3.v.2	Monitoring		Replacement of bonnet bolts;	Procedures	Y	C	
V.M.3.v.3	Monitoring		Tightening of packing gland nuts; and	Procedures	Y	C	
V.M.3.v.4	Monitoring		Injection of lubricant into lubricated packing.	Procedures	Y	C	
V.M.3.w	Monitoring	[§61.242-7(f)]	Any valve that is designated, as described in Condition V.M.4.g.2) below, for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Condition V.M.3.r above if the valve:	Records Review	Y	C	
V.M.3.w.1	Monitoring		Has no external actuating mechanism in contact with the process fluid;	Design Parameter	Y	C	
V.M.3.w.2	Monitoring		Is operated with emissions less than 500 ppm above background, as measured by the method specified in Condition V.M.3.vv below; and	Procedures	Y	C	
V.M.3.w.3	Monitoring		Is tested for compliance with Condition V.M.3.w.2) above initially upon designation, annually, and at other times requested by the Administrator and the Department.	Records Review	Y	C	
V.M.3.x	Monitoring	[§61.242-7(g)]	Any valve that is designated, as described in V.M.4.h.1) below, as an unsafe-to-monitor valve is exempt from the requirements of Condition V.M.3.r above if:	Records Review	Y	C	
V.M.3.x.1	Monitoring		The permittee of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Condition V.M.3.r above; and,	Engineering Judgement	Y	C	
V.M.3.x.2	Monitoring		The permittee of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.	Procedures	Y	C	
V.M.3.y	Monitoring	[§61.242-7(h)]	Any valve that is designated, as described in Condition V.M.4.h.2) below, as a difficult-to-monitor valve is exempt from the requirements of Condition V.M.3.r above if:	Procedures	Y	C	
V.M.3.y.1	Monitoring		The permittee of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface;	Records Review	Y	C	
V.M.3.y.2	Monitoring		The process unit within which the valve is located is an existing process unit; and	Records Review	Y	C	
V.M.3.y.3	Monitoring		The permittee of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.3.z	Monitoring	§61.242-8	If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pressure relief devices in liquid service and connectors, the permittee shall follow either one of the following procedures, except as provided in §61.242-1(c):	Administrative Requirement	Y	C	
V.M.3.z.1	Monitoring		The permittee shall monitor the equipment within 5 days by the method specified in V.M.3.uu below or §61.245(b) and shall comply with the requirements of Conditions V.M.3.aa through V.M.3.cc below.	Procedures/Records Review	Y	C	
V.M.3.z.2	Monitoring		The permittee shall eliminate the visual, audible, olfactory, or other indication of a potential leak.	Procedures	Y	C	
V.M.3.aa	Monitoring	§61.242-8(b)	If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	Records Review	Y	C	
V.M.3.bb	Monitoring	§61.242-8(c)	When a leak is detected:	Administrative Requirement	Y	C	
V.M.3.bb.1	Monitoring		It shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Conditions V.M.3.dd through V.M.3.hh below.	Procedures	Y	C	
V.M.3.bb.2	Monitoring		The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	Procedures	Y	C	
V.M.3.cc	Monitoring	§61.242-8(d)	First attempts at repair include, but are not limited to, the best practices described under Condition V.M.3.v above.	Procedures	Y	C	
V.M.3.dd	Monitoring	§61.242-10(a)	Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.	Procedures	Y	C	
V.M.3.ee	Monitoring	§61.242-10(b)	Delay of repair of equipment for which leaks have been detected will be allowed for equipment that is isolated from the process and that does not remain in VHAP service.	Procedures	Y	C	
V.M.3.ff	Monitoring		Delay of repair for valves will be allowed if:	Administrative Requirement	Y	C	
V.M.3.ff.1	Monitoring		The permittee demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and	Records Review	Y	C	
V.M.3.ff.2	Monitoring	§61.242-10(c)	When repair procedures are affected, the purged material is collected and destroyed or recovered in a control device complying with Conditions V.M.3.ii through V.M.3.tt below and V.M.1.mm above.	Procedures	Y	C	
V.M.3.gg	Monitoring	§61.242-10(d)	Delay of repair for pumps will be allowed if:	Administrative Requirement	Y	C	
V.M.3.gg.1	Monitoring		Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and	Procedures	Y	C	
V.M.3.gg.2	Monitoring		Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.hh	Monitoring	[§61.242-10(e)]	Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.	Procedures	Y	C	
V.M.3.ii	Monitoring	[§61.242-11(a)]	The permittee of closed-vent systems and control devices used to comply with provisions of 40 CFR Part 61, Subpart V shall comply with the provisions of Conditions V.M.1.n through V.M.1.mm above and V.M.3.i through V.M.3.tt below, except as provided in §61.242-1(c).	Design Parameter	Y	C	
V.M.3.jj	Monitoring	[§61.242-11(b)]	Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the organic vapors vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent.	Design Parameter	Y	C	
V.M.3.kk	Monitoring	[§61.242-11(c)]	Enclosed combustion devices shall be designed and operated to reduce the VHAP emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent, or to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760 °C.	Design Parameter	Y	C	
V.M.3.ll	Monitoring	[§61.242-11(d)]	Flares used to comply with 40 CFR 61, Subpart V shall comply with the requirements of §60.18.	Administrative Requirement	Y	C	
V.M.3.mm	Monitoring	[§61.242-11(e)]	The permittee of control devices that are used to comply with the provisions of 40 CFR Part 61, Subpart V shall monitor these control devices to ensure that they are operated and maintained in conformance with their design.	Procedures/Records Review	Y	C	
V.M.3.nn	Monitoring	[§61.242-11(f)]	Except as provided in Conditions V.M.3.qq through V.M.3.ss below, each closed vent system shall be inspected according to the following procedures and schedule, as applicable.	Administrative Requirement	Y	C	
V.M.3.nn.1	Monitoring		If the vapor collection system or closed vent system is constructed of hard-piping, the permittee shall comply with the following requirements:	Design Parameter	Y	C	
V.M.3.nn.1.a	Monitoring		Conduct an initial inspection according to the procedures in Condition V.M.3.uu below; and	Administrative Requirement	Y	C	
V.M.3.nn.1.b	Monitoring		Conduct annual visual inspections for visible, audible, or olfactory indications of leaks.	Physical Inspection/Records Review	Y	C	
V.M.3.nn.2	Monitoring		If the vapor collection system or closed vent system is constructed of ductwork, the permittee shall:	Design Parameter	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.nn.2.a	Monitoring		Conduct an initial inspection according to the procedures in Condition V.M.3.uu below; and	Physical Inspection/Records Review	Y	C	
V.M.3.nn.2.b	Monitoring		Conduct annual inspections according to the procedures in Condition V.M.3.uu below.	Physical Inspection/Records Review	Y	C	
V.M.3.oo	Monitoring	§61.242-11(g)]	Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practicable except as provided for in Condition V.M.3.pp below.	Records Review	Y	C	
V.M.3.oo.1	Monitoring		A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.	Procedures	Y	C	
V.M.3.oo.2	Monitoring		Repair shall be completed no later than 15 calendar days after the leak is detected.	Procedures	Y	C	
V.M.3.pp	Monitoring	§61.242-11(h)]	Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown, or if the permittee determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown.	Procedures	Y	C	
V.M.3.qq	Monitoring	§61.242-11(i)]	If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of Conditions V.M.3.nn.1)a) through V.M.3.nn.2) above.	Design Parameter	Y	C	
V.M.3.rr	Monitoring	§61.242-11(j)]	Any parts of the closed vent system that are designated, as described in Condition V.M.3.tt.1) below, as unsafe-to-inspect are exempt from the inspection requirements of Conditions V.M.3.nn.1)a) through V.M.3.nn.2) above if they comply with the following requirements:	Records Review	Y	C	
V.M.3.rr.1	Monitoring		The permittee determines that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with Conditions V.M.3.nn.1)a) through V.M.3.nn.2) above; and	Engineering Judgement	Y	C	
V.M.3.rr.2	Monitoring		The permittee has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times.	Physical Inspection/Records Review	Y	C	
V.M.3.ss	Monitoring	§61.242-11(k)]	Any parts of the closed vent system that are designated as difficult-to-inspect are exempt from the inspection requirements of Conditions V.M.3.nn.1)a) through V.M.3.nn.2) above if they comply with the following requirements:	Records Review	Y	C	
V.M.3.ss.1	Monitoring		The permittee determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.3.ss.2	Monitoring		The permittee has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum.	Physical Inspection/Records Review	Y	C	
V.M.3.tt	Monitoring	[\$61.242-11(l)]	The permittee shall record the following information:	Administrative Requirement	Y	C	
V.M.3.tt.1	Monitoring		Identification of all parts of the closed vent system that are designated as unsafe-to-inspect, an explanation of why the equipment is unsafe-to-inspect, and the plan for inspecting the equipment.	Records Review	Y	C	
V.M.3.tt.2	Monitoring		Identification of all parts of the closed vent system that are designated as difficult-to-inspect, an explanation of why the equipment is difficult-to-inspect, and the plan for inspecting the equipment.	Records Review	Y	C	
V.M.3.tt.3	Monitoring		For each inspection during which a leak is detected, a record of the information specified in Condition V.M.4.e.	Administrative Requirement	Y	C	
V.M.3.tt.4	Monitoring		For each inspection conducted in accordance with Condition V.M.3.uu below during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.	Physical Inspection/Records Review	Y	C	
V.M.3.tt.5	Monitoring		For each visual inspection conducted in accordance with Condition V.M.3.nn.1)b) above during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.	Physical Inspection/Records Review	Y	C	
V.M.3.uu	Monitoring	[\$61.245(b)]	Monitoring, as required in Conditions V.M.1.n through V.M.1.rr above, V.M.3.i through V.M.3.tt above, §V.M.1.vv through V.M.1.zz above, V.M.1.i and V.M.1.j above and V.M.3.d through V.M.3.h above, shall comply with the following requirements:	Administrative Requirement	Y	C	
V.M.3.uu.1	Monitoring		Monitoring shall comply with Method 21 of Appendix A of 40 CFR Part 60.	Procedures	Y	C	
V.M.3.uu.2	Monitoring		The detection instrument shall meet the performance criteria of Method 21.	Design Parameter	Y	C	
V.M.3.uu.3	Monitoring		The instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21.	Procedures	Y	C	
V.M.3.uu.4	Monitoring		Calibration gases shall be:	Administrative Requirement	Y	C	
V.M.3.uu.4.a	Monitoring		Zero air (less than 10 ppm of hydrocarbon in air); and	Procedures	Y	C	
V.M.3.uu.4.b	Monitoring		A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 ppm methane or n-hexane.	Procedures	Y	C	
V.M.3.uu.5	Monitoring		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.	Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.3.vv	Monitoring	[[§61.245(c)]]	When equipment is tested for compliance with or monitored for no detectable emissions, the permittee shall comply with the following requirements:	Administrative Requirement	Y	C	
V.M.3.vv.1	Monitoring		The requirements of Conditions V.M.3.uu.1) through V.M.3.uu.4) above shall apply.	Administrative Requirement	Y	C	
V.M.3.vv.2	Monitoring		The background level shall be determined, as set forth in Method 21.	Procedures	Y	C	
V.M.3.vv.3	Monitoring		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.	Procedures	Y	C	
V.M.3.vv.4	Monitoring		The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.	Procedures	Y	C	
V.M.3.ww	Monitoring	[[§61.245(d)(1)]]	Each piece of equipment within a process unit that can conceivably contain equipment in VHAP service is presumed to be in VHAP service unless the permittee demonstrates that the piece of equipment is not in VHAP service. For a piece of equipment to be considered not in VHAP service, it must be determined that the percent VHAP content can be reasonably expected never to exceed 10 percent by weight. For purposes of determining the percent VHAP content of the process fluid that is contained in or contacts equipment, procedures that conform to the methods described in ASTM Method D-2267 (incorporated by the reference as specified in §61.18) shall be used.	Procedures	Y	C	
V.M.3.xx	Monitoring	[[§61.245(d)(2)]]	The permittee may use engineering judgment rather than the procedures in Condition V.M.3.ww above to demonstrate that the percent VHAP content does not exceed 10 percent by weight, provided that the engineering judgment demonstrates that the VHAP content clearly does not exceed 10 percent by weight. When the permittee and the Department do not agree on whether a piece of equipment is not in VHAP service, however, the procedures in Condition V.M.3.ww above shall be used to resolve the disagreement. If the permittee determines that a piece of equipment is in VHAP service, the determination can be revised only after following the procedures in Condition V.M.3.ww above.	Engineering Judgement	Y	C	
V.M.3.yy	Monitoring	[[§61.245(d)(3)]]	Samples used in determining the percent VHAP content shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.	Records Review	Y	C	
V.M.3.zz	Monitoring	[ACHD Installation Permit 0052-1004a and §2102.04.c]	The permittee shall inspect the Methanol tanks (V-400 and V-410) and the MEA/Methanol tank (V-430) daily in order to comply with Condition V.M.1.ccc above when the equipment is in operation.	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.4.a	Record Keeping	[§61.138(a)]	The following information pertaining to the design of control equipment installed to comply with Conditions V.M.1.a through V.M.1.g above and Conditions V.M.3.a and V.M.3.b shall be recorded and kept in a readily accessible location.	Records Review	Y	C	
V.M.4.a.1	Record Keeping		Detailed schematics, design specifications, and piping and instrumentation diagrams.	Records Review	Y	C	
V.M.4.a.2	Record Keeping		The dates and descriptions of any changes in the design specifications.	Records Review	Y	C	
V.M.4.b	Record Keeping	[§61.138(b)]	The following information pertaining to sources subject to Conditions V.M.1.a through V.M.1.e above and sources subject to Conditions V.M.1.f and V.M.1.g above shall be recorded and maintained for 2 years following each semiannual (and other) inspection and each annual maintenance inspection:	Records Review	Y	C	
V.M.4.b.1	Record Keeping		The date of the inspection and the name of the inspector.	Records Review	Y	C	
V.M.4.b.2	Record Keeping		A brief description of each visible defect in the source or control equipment and the method and date of repair of the defect.	Records Review	Y	C	
V.M.4.b.3	Record Keeping		The presence of a leak, as measured using the method described in Condition V.M.3.vv above. The record shall include the date of attempted and actual repair and method of repair of the leak.	Records Review	Y	C	
V.M.4.b.4	Record Keeping		A brief description of any system abnormalities found during the annual maintenance inspection, the repairs made, the date of attempted repair, and the date of actual repair.	Records Review	Y	C	
V.M.4.c	Record Keeping	[§61.246(a)]	Each permittee subject to the provisions of 40 CFR 61, Subpart V shall comply with the recordkeeping requirements of this section. The permittee of more than one process unit subject to the provisions of this 40 CFR Part 61, Subpart V may comply with the recordkeeping requirements for these process units in one recordkeeping system if the system identifies each record by each process unit.	Records Review	Y	C	
V.M.4.d	Record Keeping	[§61.246(b)]	When each leak is detected as specified in Conditions V.M.3.i through V.M.3.k above, V.M.1.t through V.M.1.cc above, V.M.3.r through V.M.3.cc above and V.M.3.d through V.M.3.h above, the following requirements apply:	Records Review	Y	C	
V.M.4.d.1	Record Keeping		A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.	Records Review	Y	C	
V.M.4.d.2	Record Keeping		The identification on a valve may be removed after it has been monitored for 2 successive months as specified in Condition V.M.3.t above and no leak has been detected during those 2 months.	Records Review	Y	C	
V.M.4.d.3	Record Keeping		The identification on equipment, except on a valve, may be removed after it has been repaired.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.4.c	Record Keeping	[§61.246(c)]	When each leak is detected as specified in Conditions V.M.3.i through V.M.3.k above, V.M.1.t through V.M.1.cc above, V.M.3.r through V.M.3.cc above and V.M.3.d through V.M.3.h above, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:	Records Review	Y	C	
V.M.4.e.1	Record Keeping		The instrument and operator identification numbers and the equipment identification number.	Records Review	Y	C	
V.M.4.e.2	Record Keeping		The date the leak was detected and the dates of each attempt to repair the leak.	Records Review	Y	C	
V.M.4.e.3	Record Keeping		Repair methods applied in each attempt to repair the leak.	Records Review	Y	C	
V.M.4.e.4	Record Keeping		Above 10,000 if the maximum instrument reading measured by the methods specified in Conditions V.M.3.uu through V.M.3.xx above after each repair attempt is equal to or greater than 10,000 ppm.	Records Review	Y	C	
V.M.4.e.5	Record Keeping		"Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.	Records Review	Y	C	
V.M.4.e.6	Record Keeping		The signature of the permittee (or designate) whose decision it was that repair could not be effected without a process shutdown.	Records Review	Y	C	
V.M.4.e.7	Record Keeping		The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days.	Records Review	Y	C	
V.M.4.e.8	Record Keeping		Dates of process unit shutdowns that occur while the equipment is unrepaired.	Records Review	Y	C	
V.M.4.e.9	Record Keeping		The date of successful repair of the leak.	Records Review	Y	C	
V.M.4.f	Record Keeping	[§61.246(d)]	The following information pertaining to the design requirements for closed-vent systems and control devices described in V.M.3.ii through V.M.3.tt above and V.M.1.mm above shall be recorded and kept in a readily accessible location:	Records Review	Y	C	
V.M.4.f.1	Record Keeping		Detailed schematics, design specifications, and piping and instrumentation diagrams.	Records Review	Y	C	
V.M.4.f.2	Record Keeping		The dates and descriptions of any changes in the design specifications.	Records Review	Y	C	
V.M.4.f.3	Record Keeping		A description of the parameter or parameters monitored, as required in Condition V.M.3.mm above, to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.	Records Review	Y	C	
V.M.4.f.4	Record Keeping		Periods when the closed-vent systems and control devices required in Conditions V.M.3.i through V.M.3.k above, V.M.1.d through V.M.1.i above, V.M.3.p and V.M.3.q above, and V.M.1.dd through V.M.1.gg above are not operated as designed, including periods when a flare pilot light does not have a flame.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.4.f.5	Record Keeping		Dates of startups and shutdowns of the closed-vent systems and control devices required in Conditions V.M.3.i through V.M.3.k above, V.M.1.d through V.M.1.i above, V.M.3.p and V.M.3.q above, and V.M.1.dd through V.M.1.gg above.	Records Review	Y	C	
V.M.4.g	Record Keeping	[\§61.246(e)]	The following information pertaining to all equipment to which a standard applies shall be recorded in a log that is kept in a readily accessible location:	Records Review	Y	C	
V.M.4.g.1	Record Keeping		A list of identification numbers for equipment (except welded fittings) subject to the requirements of this 40 CFR Part 60, Subpart V.	Records Review	Y	C	
V.M.4.g.2	Record Keeping		A list of identification numbers for equipment that the permittee elects to designate for:	Records Review	Y	C	
V.M.4.g.2.a	Record Keeping		No detectable emissions as indicated by an instrument reading of less than 500 ppm above background.	Records Review	Y	C	
V.M.4.g.2.b	Record Keeping		The designation of this equipment for no detectable emissions shall be signed by the permittee.	Records Review	Y	C	
V.M.4.g.3	Record Keeping		A list of equipment identification numbers for pressure relief devices required to comply with Condition V.M.1.dd above.	Records Review	Y	C	
V.M.4.g.4	Record Keeping		The following information shall be recorded:	Records Review	Y	C	
V.M.4.g.4.a	Record Keeping		The dates of each compliance test required in Conditions V.M.1.y above, V.M.1.dd above, V.M.3.p and V.M.3.q above, V.M.3.w above, and V.M.3.g above.	Records Review	Y	C	
V.M.4.g.4.b	Record Keeping		The background level measured during each compliance test.	Records Review	Y	C	
V.M.4.g.4.c	Record Keeping		The maximum instrument reading measured at the equipment during each compliance test.	Records Review	Y	C	
V.M.4.g.5	Record Keeping		A list of identification numbers for equipment in vacuum service.	Records Review	Y	C	
V.M.4.h	Record Keeping	[\§61.246(f)]	The following information pertaining to all valves subject to the requirements of Conditions V.M.4.h and V.M.4.i below and to all pumps subject to the requirements of §61.242-2(g) shall be recorded in a log that is kept in a readily accessible location:	Records Review	Y	C	
V.M.4.h.1	Record Keeping		A list of identification numbers for valves and pumps that are designated as unsafe to monitor, an explanation for each valve or pump stating why the valve or pump is unsafe to monitor, and the plan for monitoring each valve or pump.	Records Review	Y	C	
V.M.4.h.2	Record Keeping		A list of identification numbers for valves that are designated as difficult to monitor, an explanation for each valve stating why the valve is difficult to monitor, and the planned schedule for monitoring each valve.	Records Review	Y	C	
V.M.4.i	Record Keeping		The following information shall be recorded for valves complying with Conditions V.M.1.ss through V.M.1.uu above.	Records Review	Y	C	
V.M.4.i.1	Record Keeping		A schedule of monitoring.	Records Review	Y	C	
V.M.4.i.2	Record Keeping		The percent of valves found leaking during each monitoring period.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.4.j	Record Keeping	[§61.246(h)]	The following information shall be recorded in a log that is kept in a readily accessible location:	Records Review	Y	C	
V.M.4.j.1	Record Keeping		Design criterion required in V.M.1.y and V.M.3.e.4) above and an explanation of the design criterion; and	Records Review	Y	C	
V.M.4.j.2	Record Keeping		Any changes to this criterion and the reasons for the changes.	Records Review	Y	C	
V.M.4.k	Record Keeping	[§61.246(i)]	The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in the applicability section of 40 CFR 61, Subpart V and other specific subparts:	Records Review	Y	C	
V.M.4.k.1	Record Keeping		An analysis demonstrating the design capacity of the process unit, and	Records Review	Y	C	
V.M.4.k.2	Record Keeping		An analysis demonstrating that equipment is not in VHAP service.	Records Review	Y	C	
V.M.4.l	Record Keeping	[§61.246(j)]	Information and data used to demonstrate that a piece of equipment is not in VHAP service shall be recorded in a log that is kept in a readily accessible location.	Records Review	Y	C	
V.M.4.m	Record Keeping	[§2103.12.j]	The permittee shall maintain records of the monthly amount of coke oven gas, in mmcf, that is:	Records Review	Y	C	
V.M.4.m.1	Record Keeping		Combusted in coke battery underfiring;	Records Review	Y	C	
V.M.4.m.2	Record Keeping		Combusted in boilers and other facilities at the Clairton Works;	Records Review	Y	C	
V.M.4.n	Record Keeping	[§2103.12.j]	The permittee shall maintain records of the monthly amount of natural gas, in mmcf, received from the Koppers facility gas blanketing system.	Records Review	Y	C	
V.M.4.o	Record Keeping	[§61.356(a) & §2103.12.j]	The permittee shall maintain the following records regarding benzene in facility wastes in a readily accessible location at the facility site for a period not less than five (5) years from the date the information is recorded unless otherwise specified. This information shall include:	Records Review	Y	C	
V.M.4.o.1	Record Keeping	[§61.356(b)]	The identification of each waste stream at the facility subject 40 CFR Part 61, Subpart FF, and indicate whether or not the waste stream is controlled for benzene emissions in accordance with 40 CFR Part 61, Subpart FF.	Records Review	Y	C	
V.M.4.o.2	Record Keeping	[§61.356(b)(1)]	For each waste stream not controlled for benzene emissions in accordance with 40 CFR Part 61, Subpart FF, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.4.p	Record Keeping	[ACHD Installation Permit No. 0052-1004a and §2103.12.j]	The permittee shall keep monthly records of the throughput, the types of liquids stored and the maximum true vapor pressure of the liquid as stored in storage tanks V-400, V-410 and V-430.	Records Review	Y	C	
V.M.4.q	Record Keeping	[§2105.12(d)]	For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which such storage takes place.	Records Review	Y	C	
V.M.5.a	Reporting	[§61.138(e)]	The permittee shall submit a statement in writing notifying the Administrator and the Department that the requirements of 40 CFR 61, Subparts L & V, have been implemented. The statement is to contain the following information for each source:	Report Submission	Y	C	
V.M.5.a.1	Reporting		Type of source (e.g., a light-oil sump or pump).	Records Review	Y	C	
V.M.5.a.2	Reporting		For equipment in benzene service, equipment identification number and process unit identification: percent by weight benzene in the fluid at the equipment; and process fluid state in the equipment (gas/vapor or liquid).	Records Review	Y	C	
V.M.5.a.3	Reporting		Method of compliance with the standard (e.g., "gas blanketing," "monthly leak detection and repair," or "equipped with dual mechanical seals").	Records Review	Y	C	
V.M.5.b	Reporting	[§61.138(f)]	The permittee shall submit a report semiannually in accordance with General Condition III.15.d above, which includes the following information:	Report Submission	Y	C	
V.M.5.b.1	Reporting		For sources subject to Conditions V.M.1.a through V.M.1.e above and sources subject to Conditions V.M.1.f and V.M.1.g above,	Records Review	Y	C	
V.M.5.b.1.a	Reporting		A brief description of any visible defect in the source or ductwork,	Records Review	Y	C	
V.M.5.b.1.b	Reporting		The number of leaks detected and repaired, and	Records Review	Y	C	
V.M.5.b.1.c	Reporting		A brief description of any system abnormalities found during each annual maintenance inspection that occurred in the reporting period and the repairs made.	Records Review	Y	C	
V.M.5.b.2	Reporting		For equipment in benzene service subject to V.M.1.i above, information required by V.M.5.c.	Records Review	Y	C	
V.M.5.b.3	Reporting		For each exhauster subject to V.M.1.i and V.M.1.j above and V.M.3.d through V.M.3.h above for each quarter during the semiannual reporting period.	Records Review	Y	C	
V.M.5.b.3.a	Reporting		The number of exhausters for which leaks were detected as described in Conditions V.M.3.d and V.M.3.e.5) above,	Records Review	Y	C	
V.M.5.b.3.b	Reporting		The number of exhausters for which leaks were repaired as required in Conditions V.M.3.d and V.M.3.e.6) above	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.M.5.b.3.c	Reporting		The results of performance tests to determine compliance with Condition V.M.3.g above conducted within the semiannual reporting period.	Records Review	Y	C	
V.M.5.b.4	Reporting		A statement signed by the permittee stating whether all provisions of 40 CFR Part 61, Subpart L, have been fulfilled during the semiannual reporting period.	Records Review	Y	C	
V.M.5.b.5	Reporting		Revisions to items reported according to Condition V.M.5.a above if changes have occurred since the initial report or subsequent revisions to the initial report.	Records Review	Y	C	
V.M.5.c	Reporting	[§61.247(b)]	The semiannual report in Condition V.M.5.b above shall also include the following information:	Records Review	Y	C	
V.M.5.c.1	Reporting		Process unit identification.	Records Review	Y	C	
V.M.5.c.2	Reporting		For each month during the semiannual reporting period,	Records Review	Y	C	
V.M.5.c.2.a	Reporting		Number of valves for which leaks were detected as described in V.M.3.s above or V.M.1.ee through V.M.1.gg above.	Records Review	Y	C	
V.M.5.c.2.b	Reporting		Number of valves for which leaks were not repaired as required in V.M.3.u above.	Records Review	Y	C	
V.M.5.c.2.c	Reporting		Number of pumps for which leaks were detected as described in V.M.3.j above.	Records Review	Y	C	
V.M.5.c.2.d	Reporting		Number of pumps for which leaks were not repaired as required in V.M.3.k above.	Records Review	Y	C	
V.M.5.c.2.e	Reporting		Number of compressors for which leaks were detected as described in V.M.1.v above.	Records Review	Y	C	
V.M.5.c.2.f	Reporting		Number of compressors for which leaks were not repaired as required in V.M.1.w above.	Records Review	Y	C	
V.M.5.c.2.g	Reporting		The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible.	Records Review	Y	C	
V.M.5.c.2.h	Reporting		Dates of process unit shutdowns which occurred within the semiannual reporting period.	Records Review	Y	C	
V.M.5.c.2.i	Reporting		The results of all performance tests and monitoring to determine compliance with no detectable emissions and with Conditions V.M.1.nn through V.M.1.aaa above conducted within the semiannual reporting period.	Records Review	Y	C	
V.M.5.d	Reporting	[§61.247(d)]	An owner or operator electing to comply with the provisions of Conditions V.M.1.nn through V.M.1.aaa above shall notify the Administrator and the Department of the alternative standard selected 90 days before implementing either of the provisions.	Records Review	Y	C	
V.M.5.e	Reporting	[§61.357(a)(1), (a)(2), (a)(3) and (c)]	If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the permittee shall submit to the Administrator and the Department a report that updates the following information:	Records Review	Y	C	
V.M.5.e.1	Reporting	[§61.357(a)(1)]	Total annual benzene quantity from facility waste determined in accordance with Condition V.M.2.b above.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.M.5.e.2	Reporting	[[§61.357(a)(2)]]	A table identifying each waste stream and whether or not the waste stream will be controlled for benzene emissions in accordance with the requirements of 40 CFR 61, Subpart FF.	Records Review	Y	C	
V.M.5.e.3	Reporting	[[§61.357(a)(3)]]	For each waste stream identified as not being controlled for benzene emissions in accordance with the requirements of 40 CFR 61, Subpart FF, the following information shall be added to the table:	Records Review	Y	C	
V.M.5.e.3.a	Reporting		Whether or not the water content of the waste stream is greater than 10 percent;	Records Review	Y	C	
V.M.5.e.3.b	Reporting		Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Records Review	Y	C	
V.M.5.e.3.c	Reporting		Annual waste quantity for the waste stream;	Records Review	Y	C	
V.M.5.e.3.d	Reporting		Range of benzene concentrations for the waste stream;	Records Review	Y	C	
V.M.5.e.3.e	Reporting		Annual average flow-weighted benzene concentration for the waste stream; and	Records Review	Y	C	
V.M.5.e.3.f	Reporting		Annual benzene quantity for the waste stream.	Records Review	Y	C	
V.M.5.e.4	Reporting	[[§61.357(c)]]	The report shall be submitted annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. If the information in the annual report required by Conditions V.M.5.e.1) through V.M.5.e.3) above is not changed in the following year, the permittee may submit a statement to that effect.	Report Submission	Y	C	
V.M.5.f	Reporting	[ACHD Installation Permit No. 0052-1004a and §2103.12.k.1]	The types of liquid stored in storage tanks V-400, V-410 and V-430, and the 12-month rolling totals of the throughput shall be reported to the Department on a semi-annual basis.	Records Review	Y	C	
V.M.5.g	Reporting	[ACHD Installation Permit No. 0052-1004a and §2103.12.k.1]	The permittee shall submit notification of intent to store any new material in storage tanks V-400, V-410 and V-430 other than methanol (V-400 and V-410) or MEA/methanol (V-430), to the Department a minimum of ten (10) working days prior to the intended store date. This notification shall at a minimum include the Material Safety Data Sheet and emission calculation for the new material.	Report Submission	Y	C	
V.M.6.a	Work Practice Standards	[[§2105.06; RACT Plan 234]]	The By-Products Plant Clean Coke Oven Gas Blanketing System and all process units blanketed by this system shall be properly maintained and operated according to good engineering and air pollution control practices at all times.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.N.1.a	Restrictions	§2105.40.a; §60.254(a)	The permittee shall not operate, or allow to be operated, the continuous barge unloaders in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.N.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.N.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.N.1.b	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Direct Measurement & Record Review	Y	C	
V.N.1.c	Restrictions	§60.254(a)	The permittee shall not cause to be discharged into the atmosphere from the No. 2 Continuous Barge Unloader gases which exhibit 20 percent opacity or greater.	Direct Measurement & Record Review	Y	C	
V.N.1.d	Restrictions	§60.11(c)	The opacity standards in condition V.N.1.c shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in 40CFR Part 60 Subpart Y.	Direct Measurement & Record Review	Y	C	
V.N.2.a	Testing	§60255(a)	An owner or operator of each affected facility that commenced construction, reconstruction, or modification on or before April 28, 2008, must conduct all performance tests required by §60.8 to demonstrate compliance with the applicable emission standards using the methods identified in §60.257.	Record Review	Y	C	
V.N.2.b	Testing	§60.11(b)	Compliance with opacity standards in condition V.N.1.c shall be determined by conducting observations in accordance with Method 9 in appendix A of subpart 60 or any alternative method that is approved by the Administrator and the Department, or as provided in §60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).	Record Review	Y	C	
V.N.2.c	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.N.3.a	Monitoring	§2103.12.i]	The permittee shall perform annual visible emission observations for a period of one hour for the No. 1 and No. 2 Continuous Barge Unloaders to determine compliance with Condition V.N.1.a above.	Record Review	Y	C	
V.N.4	Record Keeping	§2103.12.j	The permittee shall record the annual visible emission observations.	Record Review	Y	C	
V.N.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visible emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.N.6.a	Work Practice Standards	§60.11(d)	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator and the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.	Engineering Judgement	Y	C	
V.N.7.a	Additional Requirements	§60.11(g)	For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.	Administrative	Y	C	
V.N.7.b	Additional Requirements	§60.12	No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.O.1.a	Restrictions	§2105.40.a	The permittee shall not operate, or allow to be operated, the pedestal crane unloader in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.O.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.O.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.O.1.b	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.O.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.O.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the Pedestal Crane Unloader to determine compliance with Condition V.N.1.a above.	Record Review	Y	C	
V.O.4	Record Keeping	§2103.12.j	The permittee shall record the annual visible emission observations.	Record Review	Y	C	
V.O.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visual emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.P.1.a	Restrictions	§2104.40.a	The permittee shall not operate, or allow to be operated, the clam shell unloader in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.P.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.P.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.P.1.b	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.P.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.P.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the Wharf Crane Unloader to determine compliance with Condition V.P.1.a above.	Record Review	Y	C	
V.P.4	Record Keeping	§2103.12.j	The permittee shall record the annual visual emission observations.	Record Review	Y	C	
V.P.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visual emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Q.1.a	Restrictions	§2104.40.a	The permittee shall not operate, or allow to be operated, the Coal Transfer Station (P026) in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.Q.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.Q.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.Q.1.b	Restrictions	§2104.02.e.4	The permittee shall maintain and operate the deflector plates, hoppers and chutes installed on belts 1A and 1B.	Record Review	Y	C	
V.Q.1.c	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.Q.2	Testing		The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02. (§2103.12.h.1)	Record Review	Y	C	
V.Q.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the Coal Transfer Station (P026) to determine compliance with Condition V.Q.1.a above.	Record Review	Y	C	
V.Q.4	Record Keeping	§2103.12.j	The permittee shall record the annual visual emission observations.	Record Review	Y	C	
V.Q.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visual emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.R.1.a	Restrictions	§2104.01.a	The permittee shall not operate, or allow to be operated, the No. 1 Primary Coal Pulverizer in such manner that the opacity of visible emissions from the coal pulverizing operation, excluding uncombined water:	N/A			
V.R.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review	Y	C	
V.R.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.R.1.b	Restrictions	§2104.02.e	The permittee shall not operate, or allow to be operated, any primary or secondary coal pulverizer listed below unless there is installed on such process an emission control device, nor shall any person operate, or allow to be operated, any pulverizer listed below in such manner that emissions of PM-10 from such process exceed at any time the applicable rate set forth below for a volume source for ambient air quality impact dispersion modeling purposes, or if the required emission control device results in the process becoming a point source for ambient air quality impact dispersion modeling purposes, a rate which results in no more adverse ambient air quality impact than the applicable rate set forth below for a volume source.	Record Review	Y	C	
		§2104.02.e.1 through e.4	This requirement shall apply to the sum of all stack emissions from the coal pulverizers listed below including all emissions from any air pollution control device outlet(s) associated with the pulverizers. All fugitive emissions from the coal pulverizers shall be included in the sum of all stack emissions unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 or any alternative standard(s) established for such source pursuant to §2104.01	Process Knowledge	Y	C	
			VOLUME SOURCE MAXIMUM ALLOWABLE SPECIFIC PROCESS SOURCE EMISSION RATE				
			1. #1 Primary Coal Pulverizer 5.17 grains/ton of coal	Process Knowledge	Y	C	
			2. #1 Secondary Coal Pulverizer 11.86 grains/ton of coal	Process Knowledge	Y	C	
			3. #2 Primary Coal Pulverizer 8.26 grains/ton of coal	Process Knowledge	Y	C	
			4. #2 Secondary Coal Pulverizer 11.02 grains/ton of coal	Process Knowledge	Y	C	
			The permittee shall install a direct feed chute and distribution plough at the #2 secondary pulverizer and enclose all coal feed chutes on the pulverizers.	Process Knowledge	Y	C*	The compliance certification contained in this application is based on the understanding that §2104.02.e "...enclose all coal feed chutes...", requires the enclosure of all feed chutes to the pulverizers per Paragraph 14, page 7 of the GASP Agreement, "...enclose all feed chutes to the pulverizers..."
V.R.1.c	Restrictions	§2104.02.e.1 through e.4	The permittee shall use dust suppressant (e.g. chemical, oil, or water suppressant to minimize emissions) on coal prior to entry into any pulverizer.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.R.1.d	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the U. S. Steel Clairton Works.	Record Review	Y	C	
V.R.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.R.3	Monitoring	§2103.12.i	The permittee shall monitor the total amount and type of dust suppressant applied to the coal at all of the pulverizers on a monthly basis.	Record Review	Y	C	
V.R.4	Record Keeping	§2103.12.j	The permittee shall record and maintain monthly records of the tons of coal processed through the Primary and Secondary Coal Pulverizers.	Record Review	Y	C	
V.R.5	Reporting	§2103.12.k	The permittee shall submit reports semiannually to the Department as required in General Condition III.15.d above and the type and total amount of dust suppressant applied at all of the pulverizers.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.S.1.a	Restrictions	§2104.40.a	The permittee shall not operate, or allow to be operated, the pulverized coal surge bins and bunkers (P031) in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.S.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.S.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.S.1.b	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.S.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.S.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour at the Coal Surge Bins and Bunkers (P031) to determine compliance with Condition V.S.1.a.1) above.	Record Review	Y	C	
V.S.4	Recordkeeping	§2103.12.j	The permittee shall record the annual visual emission observations.	Record Review	Y	C	
V.S.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visible emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.T.1.a	Restrictions:	§2104.40.a	The permittee shall not operate, or allow to be operated, the coke transfer operations (P032 and P033) in such manner that the opacity of visible emissions from the coal unloading operation, excluding uncombined water:	N/A			
V.T.1.a.1	Restrictions:		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.T.1.a.2	Restrictions:		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.T.1.b	Restrictions:	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.T.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.T.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the Coke Transfer operations (P032 & P033) to determine compliance with Condition V.T.1.aV.N.1.a above.	Record Review	Y	C	
V.T.4	Record Keeping	§2103.12.j	The permittee shall record the annual visual emission observations.	Record Review	Y	C	
V.T.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visual emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.U.1.a	Restrictions:	§2104.40.a	The permittee shall not operate, or allow to be operated, the No. 1 or No. 2 Coke Screening Station (P034 & P035) in such manner that the opacity of visible emissions from the screening operation, excluding uncombined water:	N/A			
V.U.1.a.1	Restrictions:		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.U.1.a.2	Restrictions:		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.U.1.b	Restrictions:	§2104.02.g	The permittee shall not operate or allow to be operated, the No. 1 or No. 2 Coke Screening Station unless each screening station, at a minimum, is located and maintained within the enclosure in existence as of February 1, 1994.	Record Review	Y	C	
V.U.1.c	Restrictions:	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.U.2	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.U.3	Monitoring	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the No. 1 and No. 2 Coke Screening Stations (P03 & P035) to determine compliance with Condition V.U.1.a V.N.1.a above.	Record Review	Y	C	
V.U.4	Record Keeping	§2103.12.j	The permittee shall record the coke screening stations (P034 & P035) annual visible emission observations.	Record Review	Y	C	
V.U.5	Reporting	§2103.12.k	The permittee shall submit semiannual reports to the Department and the annual visual emission observations in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.V.1.a	Restrictions	Installation Permit 0052-I003, 1/23/98 and §2104.40.a	The permittee shall not operate, or allow to be operated, Coke Screening Station No. 3 (P036) in such manner that the opacity of visible emissions from the coke loading operation, excluding uncombined water:	N/A			
V.V.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review			
V.V.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review			
V.V.1.b	Restrictions	Installation Permit 0052-I003, 1/23/98 and §2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review			
V.V.1.c	Restrictions	Installation Permit 0052-I003, 1/23/98	Particulate emissions from the baghouse outlet at the No. 3 Screening Station shall not exceed 0.78 lb/hour or 3.42 tons/year.	Direct Measurement & Record Review			
V.V.1.d	Restrictions	§2104.02.f and Consent Order and Agreement (COA), Third Amendment, July 6, 2011, Condition K	The permittee shall not operate, or allow to be operated, the Coke Screening #3 process, unless there is installed on such process an emission control device, nor shall the permittee operate, or allow to be operated such process in such manner that emissions of PM-10 from such process exceed 2.8 grains/ton of coke at any time.	Direct Measurement & Record Review			
V.V.1.e	Restrictions	§2104.02.f	The emission limitation in Condition V.V.1.d above shall apply to the sum of all stack emissions from Coke Screening #3 process including all emissions from any air pollution control device outlet(s) associated with the No. 3 Screening Station. All fugitive emissions from the screening station shall be included in the sum of all stack emissions for purposes of this condition unless the stack emissions can be accurately measured and D14 all fugitive emissions do not exceed the standards established by §2104.01 or any alternative standard(s) established for the No. 3 Screening Station such pursuant to §2104.01.	Record Review			
V.V.1.f	Restrictions	Installation Permit 0052-I003, 1/23/98 and §2105.03	The baghouse for the No. 3 Screening Station shall be properly installed, maintained and operated consistent with good air pollution control practice, and in accordance with the manufacturer's recommendations and practices at all times that coke is screened, conveyed, and loaded out.	Engineering Judgement			
V.V.1.g	Restrictions	§2105.3; COA, Third Amendment, July 6, 2011	The pressure drop across the No. 3 Coke Screening Station baghouse shall be maintained between 1 and 8 inches W.C.	Direct Measurement & Record Review			

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.V.1.h	Restrictions	Installation Permit 0052-I003, 1/23/98; §2105.03 and COA, Third Amendment, July 6, 2011	Emissions from Coke Screening Station No. 3 (PO36) shall not exceed the limits listed in Table V-V-1 at any time:	Direct Measurement & Record Review	The No 3 Screening was not in operation during the report period. It has been replaced by the No 4 Screening Station. It no longer exists.		
			POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
			PM/PM 10 (Coke screening baghouse) 0.78 3.42				
V.V.2.a	Testing Requirements	§2102.04.e and §2108.02.e	The permittee shall perform testing on the No. 3 coke screening station baghouse outlet and shall conduct subsequent emission testing at least once every five (5) years thereafter, to determine compliance with the PM/PM-10 emission limitation of 0.78 lbs/hour as specified in Table 1 above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5. The permittee shall submit a stack test protocol to the Department at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9	Record Review			
V.V.2.b	Testing Requirements	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review			
V.V.3	Monitoring Requirements	§2103.12.i and Consent Order and Agreement (COA), Third Amendment, July 6, 2011	The permittee shall monitor and record the pressure drop across the baghouse.	Record Review			
V.V.4.a	Record Keeping Requirements	Installation Permit 0052-I003, 1/23/98 and §2103.12.i	Monthly records shall be maintained of all coke tonnages processed and loaded out through the screening station. Monthly records shall be kept of all inspections, maintenance, repairs, and emission control unit operating data.	Record Review			
V.V.4.b	Record Keeping Requirements	§2103.12.j and Consent Order and Agreement (COA), Third Amendment, July 6, 2011	The permittee shall record the pressure drop across the baghouse at least once per day.	Record Review			

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.V.5	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with the General Condition III.15.d above of the monthly tons of coke throughput to the No. 3 Coke Screening Station and the daily reading of the pressure drop across the baghouse as specified in Condition V.V.4.b above.	Record Review			
V.V.6	Workpractice Requirements	§2103.12.h.1; §2108.02.b, §2108.02.e.	None except as provided elsewhere in the permit	Record Review			
V.V.7	Additional Requirements	§2103.12.d; COA, Third Amendment, July 6, 2011	The permittee shall achieve continuous compliance with the No. 3 Screening Station particulate emission limitations in Article XXI, §2104.02.f, or when the proposed revision to §2104.02.f is approved by U. S. EPA in a SIP revision.	Record Review			
V.V.7.1	Additional Requirements:		Begin construction of a new baghouse six months after receipt of an installation permit and revision of the emission limit in §2104.02.f; and	Record Review			
V.V.7.2	Additional Requirements		Complete construction of the new baghouse 12 months after receipt of installation permit.	Record Review			

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.W.1.a	Restrictions	§2104.01.a	The permittee shall not operate, or allow to be operated, the boom conveyor (P041) in such manner that the opacity of visible emissions excluding uncombined water:	N/A			
V.W.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.W.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.W.1.b	Restrictions	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Record Review	Y	C	
V.W.2	Testing Requirements		None, except as may be provided elsewhere in this permit.	N/A			
V.W.3	Monitoring Requirements:	§2103.12.i	The permittee shall perform monthly visible emission observations of the boom conveyor operations (P026) to determine compliance with Condition V.W.1.a above.	Record Review	Y	C	
V.W.4	Record Keeping Requirements:	§2103.12.j	The permittee shall record the monthly tons of coal transferred by the boom conveyor and the monthly visual emission observations.	Record Review	Y	C	
V.W.5	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15.d above of the monthly tons of coal transferred by the boom conveyor and the monthly visual emission observations.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.X.1.a	Restrictions	§2104.01.a	The permittee shall not operate, or allow to be operated, the coal and coke recycle screening operation (P042) in such manner that the opacity of visible emissions from the screening operation, excluding uncombined water	N/A			
V.X.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.X.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.X.1.b	Restrictions	§2104.02.c.3	The permittee shall not operate, or allow to be operated, the Coal and Coke Recycle Screening (P042) operation, in such manner that emissions of particulate matter from such process exceed 11.2 pounds per hour (lb/hr) at any time as determined by the formula set forth in §2104.02.c. This emission limitation shall apply to the sum of all stack emissions from process P042 process including all emissions from any air pollution control device outlet(s) associated with process P042. All fugitive emissions from process P042 shall be included in the sum of all stack emissions for purposes of this emission limitation, unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 or any alternative standard(s) established for process P042 pursuant to §2104.01.	Record Review	Y	C	
V.X.2	Testing Requirements		None, except as may be provided elsewhere in this permit.	N/A			
V.X.3	Monitoring Requirements	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one (1) hour for the coal and coke recycle screening operations (P026) to determine compliance with Condition V.X.1.aV.N.1.a above.	Record Review	Y	C	
V.X.4	Record Keeping Requirements	§2103.12.j	The permittee shall record the recycle screening station annual visible emission observations.	Record Review	Y	C	
V.X.5	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15.d above the annual visible emission observations.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Y.1.a	Restrictions	§2104.01.a	The permittee shall not operate, or allow to be operated, the coke screening operation (P043) in such manner that the opacity of visible emissions from the screening operation, excluding uncombined water:	N/A			
V.Y.1.a.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Direct Measurement & Record Review	Y	C	
V.Y.1.a.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C	
V.Y.1.b	Restrictions	§2104.02.c.3	The permittee shall not operate, or allow to be operated, the Peters Creek Coke Screening operation, in such manner that emissions of particulate matter from such process exceed 31.3 pounds per hour (lb/hr) at any time as determined by the formula set forth in §2104.02.c. This emission limitation shall apply to the sum of all stack emissions from coke screening (P043) including all emissions from any air pollution control device outlet(s) associated with process P043. All fugitive emissions from process P043 shall be included in the sum of all stack emissions for purposes of this emission limitation unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 of this Article or any alternative standard(s) established for process P043 pursuant to §2104.01 of this Article	Record Review	Y	C	
V.Y.2	Testing Requirements		None, except as may be provided elsewhere in this permit.	N/A			
V.Y.3	Monitoring Requirements	§2103.12.i	The permittee shall perform annual visible emission observations for a period of one hour for the coke screening (P043) operations to determine compliance with Condition V.Y.1.aV.N.1.a above.	Record Review	Y	C	
V.Y.4	Record Keeping Requirements	§2103.12.j	The permittee shall record the annual visible emission observations.	Record Review	Y	C	
V.Y.5	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports of the visual emission observations to the Department in accordance with General Condition III.15.d above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.1.a	Restrictions	§2103.12.h.6; §63.562(b)(1)(i)	The permittee shall equip each terminal with a vapor collection system that is designed to collect HAP vapors displaced from marine tank vessels during marine tank vessel loading operations and to prevent HAP vapors collected at one loading berth from passing through another loading berth to the atmosphere, except for those commodities exempted under §63.560(d).	Design Parameter	Y	C	
V.Z.1.b	Restrictions	§2103.12.h.6; §63.562(b)(1)(ii)	The permittee shall limit marine tank vessel loading operations to those vessels that are equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.	Record Review	Y	C	
V.Z.1.c	Restrictions	§2103.12.h.6; §63.562(b)(1)(iii)	The permittee shall limit marine tank vessel loading operations to those vessels that are vapor tight and to those vessels that are connected to the vapor collection system.	Record Review	Y	C	
V.Z.1.d	Restrictions	§2103.12.h.6; §63.562(b)(2)	The permittee shall reduce captured HAP emissions from marine tank vessel loading operations by 97 weight-percent, as determined using methods in §63.565 (d) and (l).	Direct Measurement & Record Review	Y	C	
V.Z.1.e	Restrictions	§2103.12.h.6; §63.563(a)	The following procedures shall be used to determine compliance with the emissions limits under Condition V.Z.1.a above:	Record Review	Y	C	
V.Z.1.e.1	Restrictions		Vent stream by-pass requirements for the terminal's vapor collection system.	Record Review	Y	C	
V.Z.1.e.1.a	Restrictions		In accordance with Condition V.Z.1.a above, each valve in the terminal's vapor collection system that would route displaced vapors to the atmosphere, either directly or indirectly, shall be secured closed during marine tank vessel loading operations either by using a car-seal or a lock-and-key type configuration, or the by-pass line from the valve shall be equipped with a flow indicator, except for those valves used for pressure/vacuum relief, analyzers, instrumentation devices, sampling, and venting for maintenance. Marine tank vessel loading operations shall not be performed with open by-pass lines.	Record Review	Y	C	
V.Z.1.e.1.b	Restrictions		Repairs shall be made to valves, car-seals, or closure mechanisms no later than 15 days after a change in the position of the valve or a break in the car-seal or closure mechanism is detected or no later than prior to the next marine tank vessel loading operation, whichever is later.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.1.e.2	Restrictions		Ship-to-shore compatibility of vapor collection systems. Following the date on which the initial performance test is completed, marine tank vessel loading operations must be performed only if the marine tank vessel's vapor collection equipment is compatible to the terminal's vapor collection system; marine tank vessel loading operations must be performed only when the marine tank vessel's vapor collection equipment is connected to the terminal's vapor collection system, as required in Condition V.Z.1.b above.	Record Review	Y	C	
V.Z.1.e.3	Restrictions	§2103.12.h.6; §63.563(a)(4)	Vapor-tightness requirements of the marine vessel. The permittee shall use the procedures in paragraph V.Z.1.e.3)a), V.Z.1.e.3)b), V.Z.1.e.3)c) or V.Z.e.3)d) below to ensure that marine tank vessels are vapor tight, as required in Condition V.Z.1.b above.	Record Review	Y	C	
V.Z.1.e.3.a	Restrictions	§2103.12.h.6; §63.563(a)(4)(i)	Pressure test documentation for determining vapor tightness of the marine vessel. The owner or operator of a marine tank vessel shall provide a copy of the vapor-tightness pressure test documentation described in Condition V.Z.4.c below for each marine tank vessel prior to loading. The date of the test listed in the documentation must be within the preceding 12 months. The permittee must check vapor-tightness pressure test documentation for marine tank vessels loaded at positive pressure.	Record Review	Y	C	
V.Z.1.e.3.b	Restrictions	§2103.12.h.6; §63.563(a)(4)(ii)	Leak test documentation for determining vapor tightness of the marine vessel. If no documentation of the vapor tightness pressure test as described in paragraph V.Z.1.e.3)a) above is available, the owner or operator of a marine tank vessel shall provide the leak test documentation described in Condition V.Z.4.c. below for each tank vessel prior to loading. The date of the test listed in the documentation must be within the preceding 12 months, and the test must be conducted in accordance with procedures in §63.565(c)(2). If the marine tank vessel has failed its most recent vapor-tightness leak test at that terminal, the owner or operator of the non-vapor-tight marine tank vessel shall provide documentation that the leaks detected during the previous vapor-tightness test have been repaired and documented with a successful vapor-tightness leak test described in §63.565(c)(2) conducted during loading.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
			If the owner or operator of the marine tank vessel can document that repair is technically infeasible without cleaning and gas freeing or dry-docking the vessel, the owner or operator of the affected source may load the marine tank vessel. Following the date on which the initial performance test is completed, the permittee must check the vapor-tightness leak test documentation for marine tank vessels loaded at positive pressure.		Y	C	
V.Z.1.e.3.c	Restrictions	§2103.12.h.6; §63.563(a)(4)(iii)	Leak test performed during loading using Method 21 for determining vapor tightness of the marine vessel. If no documentation of vapor tightness as described in paragraphs V.Z.1.e.3)a) or V.Z.1.e.3)b) above is available, the owner or operator of a marine tank vessel shall perform a leak test of the marine tank vessel during marine tank vessel loading operation using the procedures described in §63.565(c)(2).	Record Review	Y	C	
V.Z.1.e.3.c.i	Restrictions		If no leak is detected, the owner or operator of a marine tank vessel shall complete the documentation described in Condition V.Z.4.c below prior to departure of the vessel.	Record Review	Y	C	
V.Z.1.e.3.c. ii	Restrictions		If a leak is detected, the owner or operator of the marine tank vessel shall document the vapor-tightness failure for the marine tank vessel prior to departure of the vessel. The leaking component shall be repaired prior to the next marine tank vessel loading operation at a controlled terminal unless the repair is technically infeasible without cleaning and gas freeing or dry-docking the vessel. If the owner or operator of the vessel provides documentation that repair of such equipment is technically infeasible without cleaning and gas freeing or dry-docking the vessel, the equipment responsible for the leak will be excluded from future Method 21 tests until repairs are effected. A copy of this documentation shall be maintained by the owner or operator of the affected source. Repair of the equipment responsible for the leak shall occur the next time the vessel is cleaned and gas freed or dry-docked.	Record Review	Y	C	
			For repairs that are technically feasible without dry-docking the vessel, the permittee shall not load the vessel again unless the marine tank vessel owner or operator can document that the equipment responsible for the leak has been repaired.		Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.1.e.3.d	Restrictions	§2103.12.h.6; §63.563(a)(4)(iv)	Negative pressure loading. The permittee shall ensure that a marine tank vessel is loaded with the product tank below atmospheric pressure (i.e., at negative gauge pressure). The pressure shall be measured between the facility's vapor connection and its manual isolation valve, and the measured pressure must be below atmospheric pressure. Following the date on which the initial performance test is completed, marine tank vessel loading operations for non-vapor-tight vessels must be performed below atmospheric pressure (i.e., at negative gauge pressure) in the product tank.	Direct Measurement & Record Review	Y	C	
V.Z.1.f	Restrictions	□§2102.04.b.6	VOC emissions from the Light Oil Barge Loading facility (P044) shall not exceed 0.17 lbs/hour and 0.75 tons/year at any time:	Emission Calculation & Record Review	Y	C	
V.Z.2	Testing Requirements	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.Z.3.a	Monitoring Requirements		The permittee shall perform the following procedures for detecting and repairing leaks in the vapor collection systems:	Record Review	Y	C	
V.Z.3.a.1	Monitoring Requirements	§2103.12.h.6; §63.5 (c)	The permittee shall inspect and monitor all ductwork and piping and connections to vapor collection systems and control devices once each calendar year using Method 21.	Record Review	Y	C	
V.Z.3.a.2	Monitoring Requirements	§2103.12.h.6; §63.5 (c)	If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method, all ductwork and piping and connections to vapor collections systems and control devices shall be inspected to the extent necessary to positively identify the potential leak and any potential leaks shall be monitored within 5 days by Method 21. Each detection of a leak shall be recorded, and the leak shall be tagged until repaired.	Record Review	Y	C	
V.Z.3.a.3	Monitoring Requirements	§2103.12.h.6; §63.5 (c)	When a leak is detected, a first effort to repair the vapor collection system and control device shall be made within 15 days or prior to the next marine tank vessel loading operation, whichever is later.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.3.b	Monitoring Requirements	§2103.12.h.6; §63.564(d)	The permittee complying with Condition V.Z.1.e.3)d) above that load vessels at less than atmospheric pressure (i.e., negative gauge pressure) shall measure and record the loading pressure. The permittee shall install, calibrate, maintain, and operate a recording pressure measurement device (magnehelic gauge or equivalent device) and an audible and visible alarm system that is activated when the pressure vacuum specified in Condition V.Z.1.e.3)d) above is not attained. The permittee shall place the alarm system so that it can be seen and heard where cargo transfer is controlled. The permittee shall verify the accuracy of the pressure device once each calendar year with a reference pressure monitor (traceable to National Institute of Standards and Technology (NIST) standards or an independent pressure management device dedicated for this purpose).	Record Review	Y	C	
V.Z.4.a	Record Keeping Requirements	§2103.12.h.6; §2103.12.f.3; §2103.25.a.1	The permittee shall maintain in an accessible location on site an engineering report describing in detail the vent system, or vapor collection system, used to vent each vent stream to a control device. This report shall include all valves and vent pipes that could vent the stream to the atmosphere, thereby bypassing the control device, and identify which valves are car-sealed opened and which valves are car-sealed closed.	Record Review	Y	C	
V.Z.4.b	Record Keeping Requirements	§2103.12.h.6; §63.567(h)	The permittee shall keep the vapor-tightness documentation required under Condition V.Z.1.e.3) above on file at the source in a permanent form available for inspection.	Record Review	Y	C	
V.Z.4.c	Record Keeping Requirements	§2103.12.h.6; §63.567(i)	The permittee shall maintain a documentation file for each marine tank vessel loaded at that source to reflect current test results as determined by the appropriate method in §63.565(c). Updates to this documentation file shall be made at least once per year. The permittee shall include, as a minimum, the following information in this documentation:	Record Review	Y	C	
V.Z.4.c.1	Record Keeping Requirements		Test title;	Record Review	Y	C	
V.Z.4.c.2	Record Keeping Requirements		Marine vessel owner and address;	Record Review	Y	C	
V.Z.4.c.3	Record Keeping Requirements		Marine vessel identification number;	Record Review	Y	C	
V.Z.4.c.4	Record Keeping Requirements		Loading time, according to V.Z.1.e.3)b) or V.Z.1.e.3)c) above, if appropriate;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.4.c.5	Record Keeping Requirements		Testing location;	Record Review	Y	C	
V.Z.4.c.6	Record Keeping Requirements		Date of test;	Record Review	Y	C	
V.Z.4.c.7	Record Keeping Requirements		Tester name and signature;	Record Review	Y	C	
V.Z.4.c.8	Record Keeping Requirements		Test results from §63.565(c) as appropriate;	Record Review	Y	C	
V.Z.4.c.9	Record Keeping Requirements		Documentation provided under V.Z.1.e.3)b) and V.Z.1.e.3)c)ii) above showing that the repair of leaking components attributed to a failure of a vapor-tightness test is technically infeasible without dry-docking the vessel; and	Record Review	Y	C	
V.Z.4.c.10	Record Keeping Requirements		Documentation that a marine tank vessel failing a pressure test or leak test has been repaired.	Record Review	Y	C	
V.Z.4.d	Record Keeping Requirements	§2103.12.h.6; §63.567(k)	When each leak of the vapor collection system is detected and repaired as specified in V.Z.3.a above, the following information required shall be maintained for 5 years:	Record Review	Y	C	
V.Z.4.d.1	Record Keeping Requirements		Date of inspection;	Record Review	Y	C	
V.Z.4.d.2	Record Keeping Requirements		Findings (location, nature, and severity of each leak);	Record Review	Y	C	
V.Z.4.d.3	Record Keeping Requirements		Leak determination method;	Record Review	Y	C	
V.Z.4.d.4	Record Keeping Requirements		Corrective action (date each leak repaired, reasons for repair interval); and	Record Review	Y	C	
V.Z.4.d.5	Record Keeping Requirements		Inspector name and signature.	Record Review	Y	C	
V.Z.5.a	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports in accordance with General Condition III.15.d of the updated documentation file for each marine tank vessel that fails a pressure or leak test as required in Condition V.Z.4.c. The report shall contain the following information:	Record Review	Y	C	
V.Z.5.a.1	Reporting Requirements		Test title;	Record Review	Y	C	
V.Z.5.a.2	Reporting Requirements		Marine vessel owner and address;	Record Review	Y	C	
V.Z.5.a.3	Reporting Requirements		Marine vessel identification number;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.5.a.4	Reporting Requirements		Loading time, according to V.Z.1.e.3)b) or V.Z.1.e.3)c) above, if appropriate;	Record Review	Y	C	
V.Z.5.a.5	Reporting Requirements		Testing location;	Record Review	Y	C	
V.Z.5.a.6	Reporting Requirements		Date of test;	Record Review	Y	C	
V.Z.5.a.7	Reporting Requirements		Tester name and signature;	Record Review	Y	C	
V.Z.5.a.8	Reporting Requirements		Test results from §63.565(c) as appropriate;	Record Review	Y	C	
V.Z.5.a.9	Reporting Requirements		Documentation provided under V.Z.1.e.3)b) and V.Z.1.e.3)c)ii) above showing that the repair of leaking components attributed to a failure of a vapor-tightness test is technically infeasible without dry-docking the vessel; and	Record Review	Y	C	
V.Z.5.a.10	Reporting Requirements		Documentation that a marine tank vessel failing a pressure test or leak test has been repaired.	Record Review	Y	C	
V.Z.5.b	Reporting Requirements	§2103.12.h.6; §63.9(h)	The permittee shall submit to the Administrator and Department, according to General Conditions III.4 and III.12 above, a notification of compliance status, signed by the responsible official who shall certify its accuracy, attesting to whether the marine tank vessel loading operation has complied with the relevant standard in Conditions V.Z.1.a through V.Z.1.c above. The notification shall list:	Record Review	Y	C	
V.Z.5.b.1	Reporting Requirements		The methods that were used to determine compliance;	Record Review	Y	C	
V.Z.5.b.2	Reporting Requirements		The results of any performance tests, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;	Record Review	Y	C	
V.Z.5.b.3	Reporting Requirements		The methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;	Record Review	Y	C	
V.Z.5.b.4	Reporting Requirements		The type and quantity of hazardous air pollutants emitted by the source (or surrogate pollutants if specified in the relevant standard), reported in units and averaging times and in accordance with the test methods specified;	Record Review	Y	C	
V.Z.5.b.5	Reporting Requirements		A description of the air pollution control equipment (or method) for each emission point, including each control device (or method) for each hazardous air pollutant and the control efficiency (percent) for each control device (or method); and	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.5.b.6	Reporting Requirements		A statement by the permittee of the as to whether the Light Oil Barge Loading (P044) has complied with the relevant standard or other requirements I 40 CFR 63, Subpart Y.	Record Review	Y	C	
V.Z.6.a	Work Practice Standards	§2103.12.h.6; §63.562(e)	At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the light oil loading facility, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Engineering Judgment	Y	C	
V.Z.6.b	Work Practice Standards	§2103.12.h.6; §63.562(e)(1)	The Department will determine compliance with design, equipment, work practice, or operational emission standards by evaluating the permittees conformance with operation and maintenance requirements.	Administrative	Y	C	
V.Z.6.c	Work Practice Standards	§2103.12.h.6; §63.562(e)(2)	The permittee shall develop and implement a written operation and maintenance plan that describes in detail a program of corrective action for varying (i.e., exceeding baseline parameters) air pollution control equipment and monitoring equipment, based on monitoring requirements in § 63.564, used to comply with these emissions standards. The plan shall also identify all routine or otherwise predictable continuous monitoring system (thermocouples, pressure transducers, continuous emissions monitors (CEMS), etc.) variances.	Record Review	Y	C	
V.Z.6.c.1	Work Practice Standards		The plan shall specify procedures (preventive maintenance) to be followed to ensure that pollution control equipment and monitoring equipment functions properly and variances of the control equipment and monitoring equipment are minimal.	Record Review	Y	C	
V.Z.6.c.2	Work Practice Standards		The plan shall identify all operating parameters to be monitored and recorded for the air pollution control device as indicators of proper operation and shall establish the frequency at which the parameters will be monitored. (see § 63.564)	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.6.c.3	Work Practice Standards		The permittee shall incorporate a standardized inspection schedule for each component of the control device used to comply with the emissions standards in § 63.562(b). To satisfy the requirements of this Condition, the permittee may use the inspection schedule recommended by the vendor of the control system or any other technical publication regarding the operation of the control system.	Record Review	Y	C	
V.Z.6.c.4	Work Practice Standards		The permittee shall develop and implement a continuous monitoring system (CMS) quality control program. The permittee shall develop and submit to the Department for approval upon request a site-specific performance evaluation test plan for the CMS performance evaluation required in §63.8(e) of subpart A of this part. Each quality control program shall include, at a minimum, a written protocol that describes procedures for initial and any subsequent calibration of the CMS; determination and adjustment of the calibration drift of the CMS; preventive maintenance of the CMS, including spare parts inventory; data recording, calculations, and reporting; and accuracy audit procedures, including sampling and analysis methods. The permittee shall maintain records of the procedures that are part of the quality control program developed and implemented for CMS.	Record Review	Y	C	
V.Z.6.d	Work Practice Standards	§2103.12.h.6; §63.562(e)(3)	Based on the results of the determination made under Condition V.Z.6.c above, the Department may require the permittee to make changes to the operation and maintenance plan for that source. Revisions may be required if the plan:	Record Review	Y	C	
V.Z.6.d.1	Work Practice Standards		Does not address a variance of the air pollution control equipment or monitoring equipment that has occurred that increases emissions;	Record Review	Y	C	
V.Z.6.d.2	Work Practice Standards		Fails to provide for operation during a variance of the air pollution control equipment or the monitoring equipment in a manner consistent with safety and good air pollution control practices; or	Record Review	Y	C	
V.Z.6.d.3	Work Practice Standards		Does not provide adequate procedures for correcting a variance of the air pollution control equipment or monitoring equipment as soon as reasonable.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.Z.6.e	Work Practice Standards	§2103.12.h.6; §63.562(e)(4)	If the operation and maintenance plan fails to address or inadequately addresses a variance event at the time the plan was initially developed, the permittee shall revise the operation and maintenance plan within 45 working days after such an event occurs. The revised plan shall include procedures for operating and maintaining the air pollution control equipment or monitoring equipment during similar variance events and a program for corrective action for such events.	Record Review	Y	C	
V.Z.6.f	Work Practice Standards	§2103.12.h.6; §63.562(e)(5)	The operation and maintenance plan shall be developed by the source's compliance date. The permittee shall keep the written operation and maintenance plan on record to be made available for inspection, upon request, by the Department for the life of the source. In addition, if the operation and maintenance plan is revised, the permittee shall keep previous (i.e., superseded) versions of the plan on record to be made available for inspection upon request by the Department for a period of 5 years after each revision to the plan.	Record Review	Y	C	
V.Z.6.g	Work Practice Standards	§2103.12.h.6; §63.562(e)(6)	To satisfy the requirements of the operation and maintenance plan, the permittee may use the source's standard operating procedures (SOP) manual, an Occupational Safety and Health Administration (OSHA) plan, or other existing plans provided the alternative plans meet the requirements of this section and are made available for inspection when requested by the Department.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.AA.1.a	Restrictions	§2103.12.a.2	Only coke oven gas and natural gas shall be combusted in Boiler B001.	Design Parameter	Y	C	
V.AA.1.b	Restrictions	§2105.21.h.4	The permittee shall not flare, mix or combust coke oven gas, or allow such gas to be flared, mixed, or combusted in Boiler No. 1, unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.AA.1.c	Restrictions	§2105.06.b.5; RACT Plan 234	Emissions of NOX shall not, at any time, exceed 0.54 lb/MMBtu.	Direct Measurement & Record Review	Y	C	
V.AA.1.d	Restrictions	§2105.06; RACT Plan 234	Boiler No. 1 (B001) shall have properly maintained and operated Continuous Monitoring Systems or approved alternatives for continuously monitoring the NOX concentration in the exhaust gas, meeting all the requirements of §2108.03 at all times with the exception of emergency or planned outages, repairs or maintenance.	Record Review	Y	C	
V.AA.1.e	Restrictions	§2105.03; RACT Plan 234	Boiler B001 shall be properly maintained and operated according to good engineering and air pollution control practices at all times.	Engineering Judgement	Y	C	
V.AA.1.f	Restrictions	§2104.02.a.4; §2104.02.a.5	Except for fuel emergencies of limited duration with prior Department approval, the permittee shall not operate, or allow to be operated, Boiler No. 1 in such manner that emissions of particulate matter exceed 0.02 pounds per million BTUs of actual heat input at any time, regardless of the type of fuel used	Emission Calculation & Record Review	Y	C	
V.AA.1.g	Restrictions	§2104.01.a	The permittee shall not operate, or allow to be operated, Boiler No. 1 (B001) in such manner that the opacity of visible emissions, excluding uncombined water:	N/A	Y	C	
V.AA.1.g.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review	Y	C	
V.AA.1.g.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.AA.1.h	Restrictions	§2108.01.d; §2104.b.3	Condition V.A.A.1.g above shall not apply to visible emission resulting solely from the cold start of Boiler B001 if such cold start has been reported as required by §2108.01.d	Record Review	Y	C	
V.AA.1.i	Restrictions	RACT Plan 234	The NOX emission limitations in Condition V.AA.1.c above, shall be determined by a thirty (30) day rolling average and by a twelve (12) month rolling average of CEM data for the lbs/MMBtu and tons/yr emission limitation respectively.	Record Review	Y	C	
V.AA.1.j	Restrictions	§2105.06.b.5 §2105.03	Emission Limitations: Emissions from Boiler B001 shall not exceed the limits listed in Table V-AA-1 at any time	Direct Measurement, Emission Calculation, & Record Review			
V.AA.1.j	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.AA.1.j	Restrictions		Particulate Matter 15.2 66.58		Y	C	
V.AA.1.j	Restrictions		PM-10 15.2 66.58		Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.AA.1.j	Restrictions		NOx 410.4 1740		Y	C	
V.AA.1.j	Restrictions		SO2 163.50 716.11		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.AA.1.j	Restrictions		A year is defined as any consecutive 12-month period		Y	C	
V.AA.1.j	Restrictions		County-only enforceable				
V.AA.2.a	Restrictions	§2108.03	The permittee shall perform Relative Accuracy Test Audits (RATA) of the NOx CEMS as specified in 25 PA Code §§139.101-139.111	Record Review	Y	C	
V.AA.2.b	Testing Requirements	§2103.12.h.1; §2108.02.b, §2108.02.e.	The permittee shall perform emissions tests and evaluations for CO and VOC on Boiler 1 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and upon permit renewal.	Record Review	Y	C	
V.AA.2.c	Testing Requirements	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.AA.3.a	Monitoring Requirements	§2108.03.b.2; RACT Plan 234	The permittee shall install, operate, and maintain continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with 25 PA Code §§139.101-139.111 relating to requirements for continuous in-stack monitoring for stationary sources.	Record Review	Y	C	
V.AA.3.b	Monitoring Requirements	§2103.12.i	The volume of coke oven gas and natural gas combusted in Boiler No. 1 and the H2S content of the coke oven gas shall be monitored and recorded on a daily basis (midnight to midnight).	Record Review	Y	C	
V.AA.4.a	Record Keeping Requirements	RACT Plan 234	The permittee shall record all exceedances of the emission limitations for NOx as specified in Condition V.AA.1.c and V.AA.1.i above.	Record Review	Y	C	
V.AA.4.b	Record Keeping Requirements	§2103.12.j	The permittee shall maintain records of the daily amounts of coke oven gas and natural gas combusted and the H2S content of the coke oven gas.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.AA.5.a	Reporting Requirements	§2103.12.k	The permittee shall submit a semiannual report to the Department in accordance with the requirements of General Condition III.15 above that lists each exceedance of the 30-day rolling average emission limitation for NO _x of 0.54 lb/MMBtu and the 12-month rolling average emission limitation for NO _x of 1,750 tons/yr. The date of each exceedance shall also be listed.	Record Review	Y	C	
V.AA.5.b	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15 above of the monthly usage of coke oven gas and natural gas and the monthly average H ₂ S content of the coke oven gas.	Record Review	Y	C	
V.AA.6	Additional Requirements	§2103.12.h.6; §2103.12.f.3; §2103.25.a.1	40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters is hereby incorporated by reference. The Department shall reopen the permit to incorporate specific requirements from 40 CFR 63, Subpart DDDDD in accordance with §2103.25.a.1.	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.BB.1.a	Restrictions	§2103.12.a.2	Only coke oven gas and natural gas shall be combusted in Boiler No. 2 (B002).	Design Parameter	Y	C	
V.BB.1.b	Restrictions	§2105.21.h.4	The permittee shall not flare, mix or combust coke oven gas, or allow such gas to be flared, mixed, or combusted in Boiler No. 2, unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.BB.1.c	Restrictions	RACT Plan 234; §2105.06.b; and §2103.12.a.2.B	Emissions of NOX shall not, at any time, exceed 0.54 lb/MMBtu.	Direct Measurement & Record Review	Y	C	
V.BB.1.d	Restrictions	RACT Plan 234; 25 PA Code §123.51	Boiler No. 2 (B002) shall have properly maintained and operated Continuous Monitoring Systems or approved alternatives for continuously monitoring the NOX concentration in the exhaust gas, meeting all the requirements of §2108.03 at all times with the exception of emergency or planned outages, repairs or maintenance.	Record Review	Y	C	
V.BB.1.e	Restrictions	RACT Plan 234; §2105.03	Boiler B002 shall be properly maintained and operated according to good engineering and air pollution control practices at all times.	Engineering Judgment	Y	C	
V.BB.1.f	Restrictions	§2104.02.a.3 and §2104.02.a.1.C	The permittee shall not operate, or allow to be operated, Boiler No. 2 in such manner that emissions of particulate matter exceed the rate established by the formula in §2104.02.a.3.	Emission Calculation & Record Review	Y	C	
V.BB.1.g	Restrictions	§2104.02.a.5	As an alternative to Condition V.BB.1.f, except for fuel emergencies of limited duration with prior Department approval, the permittee shall not operate, or allow to be operated, Boilers No. 1 and No. 2 in such manner that emissions of particulate matter exceed 0.02 pounds per million BTUs of actual heat input at any time, regardless of the fuel used.	Emission Calculation & Record Review	Y	C	
V.BB.1.h	Restrictions	§2104.01.a and §2108.01.d	The permittee shall not operate, or allow to be operated, Boiler No. 2 (B002) in such manner that the opacity of visible emissions, excluding uncombined water:	N/A	Y	C	
V.BB.1.h.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review	Y	C	
V.BB.1.h.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.BB.1.i	Restrictions	§2104.b.3	Condition V.BB.1.h above shall not apply to visible emissions resulting solely from the cold start of Boiler B001 if such cold start has been reported as required by §2108.01.d.	Record Review	Y	C	
V.BB.1.j	Restrictions	RACT Plan 234	The NOX emission limitations in Conditions V.BB.1.c above, shall be determined by a thirty (30) day rolling average and by a twelve (12) month rolling average of CEM data for the lbs/MMBtu and tons/yr emission limitation respectively.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.BB.1.k	Restrictions	§2105.06.b.5; §2105.03	Emissions Limitations: Emissions from Boiler No. 2 (B002) shall not exceed the limits listed in Table V-FF-1 at any time:	Direct Measurement, Emission Calculation, & Record Review			
V.BB.1.k	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.BB.1.k	Restrictions		Particulate Matter 9.62 42.14		Y	C	
V.BB.1.k	Restrictions		PM-10 9.62 42.14		Y	C	
V.BB.1.k	Restrictions		NOx 259.74 1285		Y	C	
V.BB.1.k	Restrictions		SO ₂ 103.48 453.22		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.BB.1.k	Restrictions		A year is defined as any consecutive 12-month period.		Y	C	
V.BB.1.k	Restrictions		County-only enforceable. (§2103.22.d.)				
V.BB.2.a	Testing Requirements	§2108.03	The permittee shall perform Relative Accuracy Test Audits (RATA) of the NOX CEMS as specified in 25 PA Code §§139.101-139.111.	Record Review	Y	C	
V.BB.2.b	Testing Requirements	§2103.12.h.1; §2108.02.b, §2108.02.e	The permittee shall perform emissions tests and evaluations for CO and VOC on Boiler 2 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and upon permit renewal.	Record Review	Y	C	
V.BB.2.c	Testing Requirements	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.BB.3.a	Monitoring Requirements	§2103.12.h.6; §2103.12.f.3; §2103.25.a.1	The permittee shall install, operate, and maintain continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with 25 PA Code §§139.101 - 139.111 relating to requirements for continuous in-stack monitoring for stationary sources.	Record Review	Y	C	
V.BB.3.b	Monitoring Requirements	§2103.12.i	The volume of coke oven gas and natural gas combusted in Boiler No. 2 and the H2S content of the coke oven gas shall be monitored and recorded on a daily basis (midnight to midnight).	Record Review	Y	C	
V.BB.4.a	Record Keeping Requirements	RACT Plan 234	The permittee shall record all exceedances of the emission limitations for NOX as specified in Conditions V.BB.1.c and V.BB.1.j above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.BB.4.b	Record Keeping Requirements	§2103.12.j	The permittee shall maintain records of the daily amounts of coke oven gas and natural gas combusted and the H2S content of the coke oven gas.	Record Review	Y	C	
V.BB.5.a	Reporting Requirements	§2103.12.k	The permittee shall submit a semiannual report to the Department in accordance with the requirements of General Condition III.15 above that lists each exceedance of the 30-day rolling average emission limitation for NOX of 0.54 lb/MMBtu and the 12-month rolling average emission limitation for NOX of 1,285 tons/yr. The date of each exceedance shall also be listed.	Record Review	Y	C	
V.BB.5.b	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15 above of the monthly usage of coke oven gas and natural gas and the monthly average H2S content of the coke oven gas.	Record Review	Y	C	
V.BB.6	Additional Requirements	§2103.12.h.6; §2103.12 §2103.25.a.1	40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters is hereby incorporated by reference. The Department shall reopened the permit to incorporate specific requirement from 40 CFR 63, Subpart DDDDD in accordance with §2013.25.a.1.	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.CC.1.a	Restrictions	§2103.12.a.2	Only coke oven gas and natural gas shall be combusted in Boilers R1 and R2.	Process Knowledge	Y	C	
V.CC.1.b	Restrictions	§2105.21.h.4	The permittee shall not flare, mix or combust coke oven gas, or allow such gas to be flared, mixed, or combusted in Boilers R1 and R2, unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.CC.1.c	Restrictions	RACT Plan 234; §2105.06.b.5	Emissions of NOX from each Boiler R1 or Boiler R2 shall not, at any time, exceed 0.54 lb/MMBtu.	Direct Measurement & Record Review	Y	C	
V.CC.1.d	Restrictions	RACT Plan 234	Boilers R1 and R2 shall be properly maintained and operated according to good engineering and air pollution control practices at all times.	Engineering Judgement	Y	C	
V.CC.1.e	Restrictions	§2104.02.a.4.D	Except for fuel emergencies of limited duration with prior Department approval, the permittee shall not operate, or allow to be operated, Boilers R1 or R2 in such manner that emissions of particulate matter exceed 0.02 pounds per million BTUs of actual heat input at any time, regardless of the type of fuel used.	Emission Calculation & Record Review	Y	C	
V.CC.1.f	Restrictions	§2104.01.a and §2108.01.d	The permittee shall not operate, or allow to be operated, Boiler R1 or Boiler R2 in such manner that the opacity of visible emissions, excluding uncombined water:	N/A			
V.CC.1.f.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review	Y	C	
V.CC.1.f.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.CC.1.g	Restrictions	§2104.b.3	Condition V.CC.1.f above shall not apply to visible emissions resulting solely from the cold start of Boiler R1 or Boiler R2, if such cold start has been reported as required by §2108.01.d.	Record Review	Y	C	
V.CC.1.h	Restrictions	[§2105.06.b; §2105.03]	Emissions Limitations: Emissions from each boiler (Boiler R1 and Boiler R2) shall not exceed the limits listed in Table V-CC-1 at any time:	Direct Measurement, Emission Calculation, & Record Review			
V.CC.1.h	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.CC.1.h	Restrictions		Pm 4.58 20.06		Y	C	
V.CC.1.h	Restrictions		PM-10 4.58 20.06		Y	C	
V.CC.1.h	Restrictions		NOx 123.66 525		Y	C	
V.CC.1.h	Restrictions		SO2 49.26 215.78		Y	C	
V.CC.1.h	Restrictions		A year is defined as any consecutive 12-month period.		Y	C	
V.CC.1.h	Restrictions		County-only enforceable. (§2103.22.d.)				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.CC.2.a	Testing Requirements	RACT Plan 234 and §2108.02.c	The permittee shall perform emissions testing on Boilers R1 and R2 at least once every two years for NOX. Such testing shall be in accordance with the §2107.05, or other such methods as approved by the Department.	Record Review	Y	C	
V.CC.2.b	Testing Requirements	§2103.12.h.1; §2108.02.b, §2108.02.e.	The permittee shall perform emissions tests and evaluations for CO and VOC on Boilers R1 and R2 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation reports shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.CC.2.c	Testing Requirements	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Record Review	Y	C	
V.CC.3.a	Monitoring Requirements	§2103.12.i	The volume of coke oven gas and natural gas combusted in Boilers R1 and R2 and the H2S content of the coke oven gas shall be monitored and recorded on a daily basis (midnight to midnight).	Record Review	Y	C	
V.CC.4.a	Monitoring Requirements	RACT Plan 234 and §2103.12.j.1	The permittee shall record and maintain records of the type and amount of each fuel combusted during each day in Boilers R1 and R2 and the H2S content of the coke oven gas.	Record Review	Y	C	
V.CC.5.a	Reporting Requirements	§2103.12.k	The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15 above of the monthly usage of coke oven gas and natural gas in Boilers R1 and R2 and the monthly average H2S content of the coke oven gas.	Record Review	Y	C	
V.CC.6.a	Additional Requirements	§2103.12.h.6; §2103.12.f.3; §2103.25.a.1	40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters is hereby incorporated by reference. The Department shall reopen the permit to incorporate specific requirements from 40 CFR 63, Subpart DDDDD in accordance with §2103.25.a.1.	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.DD.1.a	Restrictions		Only coke oven gas and natural gas shall be combusted in Boilers T1 and T2. [§2103.12.a.2]	Process Knowledge	Y	C	
V.DD.1.b	Restrictions		The permittee shall not flare, mix or combust coke oven gas, or allow such gas to be flared, mixed, or combusted in Boilers T1 and T2, unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas. [§2105.21.h.4]	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.DD.1.c	Restrictions		Emissions of NOX from each Boiler T1 or Boiler T2 shall not, at any time, exceed 0.54 lb/MMBtu. [RACT Plan 234; §2105.06.b.5; and §2103.12.a.2.B]	Direct Measurement & Record Review	Y	C	
V.DD.1.d	Restrictions		Boilers T1 and T2 shall be properly maintained and operated according to good engineering and air pollution control practices at all times. [RACT Plan 234]	Engineering Judgement	Y	C	
V.DD.1.e	Restrictions		Except for fuel emergencies of limited duration with prior Department approval, the permittee shall not operate, or allow to be operated, Boilers T1 or T2 in such manner that emissions of particulate matter exceed 0.02 pounds per million BTUs of actual heat input at any time, regardless of the type of fuel used. [§2104.02.a.4.F & G]	Emission Calculation & Record Review	Y	C	
V.DD.1.f	Restrictions		When combusting COG and natural gas simultaneously in Boilers T1 and T2, particulate mass emissions shall not exceed the rate determined by the formula in §2104.02.a.3. The allowable emissions for COG and natural gas to be used in the formula are specified in Condition V.DD.1.e above. As an alternative to Condition V.DD.1.e, except for fuel emergencies of limited duration with prior Department approval, the permittee shall not operate, or allow to be operated, Boilers T1 or T2 in such manner that emissions of PM-10 exceed 0.12 pounds per million BTUs of actual heat input at any time, regardless of the fuel used. [§2104.02.a.5]	Emission Calculation & Record Review	Y	C	
V.DD.1.g	Restrictions		The permittee shall not operate, or allow to be operated, Boiler T1 or Boiler T2 in such manner that the opacity of visible emissions, excluding uncombined water: [§2104.01.a and §2108.01.d]	N/A			
V.DD.1.g.1	Restrictions		Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period; or,	Record Review	Y	C	
V.DD.1.g.2	Restrictions		Equal or exceed an opacity of 60% at any time.	Record Review	Y	C	
V.DD.1.h	Restrictions		Condition V.DD.1.g above shall not apply to visible emissions resulting solely from the cold start of Boiler T1 and Boiler T2, if such cold start has been reported as required by §2108.01.d. [§2104.b.3]	Record Review	Y	C	
V.DD.1.i	Restrictions		Emissions from Boiler T1 or Boiler T2 (B007 or B008) shall not exceed the limits listed in Table V-DD-1 at any time: [§2105.03]	Direct Measurement, Emission Calculation, & Record Review			
V.DD.1.i	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.DD.1.i	Restrictions		Particulate Matter 3.12 13.67		Y	C	
V.DD.1.i	Restrictions		PM-10 3.12 13.67		Y	C	
V.DD.1.i	Restrictions		NOx 84.24 358		Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.DD.1.i	Restrictions		SO2 33.56 146.99		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.DD.1.i	Restrictions		A year is defined as any consecutive 12-month period.				
V.DD.1.i	Restrictions		County-only enforceable. (§2103.22.d.)				
V.DD.2.a	Testing Requirements		The permittee shall perform emissions testing on Boilers T1 and T2 at least once every two years for NOX. Such testing shall be in accordance with the §2107.05, or other such methods as approved by the Department. [RACT Plan 234 and §2108.02.c]	Record Review	Y	C	
V.DD.2.b	Testing Requirements		The permittee shall perform emissions tests and evaluations for CO and VOC on Boilers T1 and T2 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal. (§2103.12.h.1; §2108.02.b, §2108.02.e.)	Record Review	Y	C	
V.DD.2.c	Testing Requirements		The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02. (§2103.12.h.1)	Record Review	Y	C	
V.DD.3	Monitoring Requirements		The volume of coke oven gas and natural gas combusted in Boilers T1 and T2 and the H2S content of the coke oven gas shall be monitored and recorded on a daily basis (midnight to midnight). [§2103.12.i]	Record Review	Y	C	
V.DD.4	Record Keeping Requirements		The permittee shall record and maintain records of the type and amount of each fuel combusted during each day in Boilers T1 and T2 and the H2S content of the coke oven gas. [RACT Plan 234 and §2103.12.i.1]	Record Review	Y	C	
V.DD.5	Reporting Requirements		The permittee shall submit semiannual reports to the Department in accordance with General Condition III.15 above of the monthly usage of coke oven gas and natural gas in Boilers T1 and T2 and the monthly average H2S content of the coke oven gas. [§2103.12.k]	Record Review	Y	C	
V.DD.6	Workpractice Requirements		None except as provided elsewhere.	N/A			
V.DD.7	Additional Requirements		40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters is hereby incorporated by reference. The Department shall reopen the permit to incorporate specific requirements from 40 CFR 63, Subpart DDDDD in accordance with §2103.25.a.1. [§2103.12.h.6; §2103.12.f.3; §2103.25.a.1]	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.EE.1.a	Restrictions	Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.6	The permittee shall not operate or allow to be operated the wastewater tanks and/or anhydrous ammonia loading station unless the emissions are exhausted through an enclosed flare and the flare is properly maintained and operated so that a minimum destruction efficiency of 98% is maintained.	Design Parameter	Y	C	
V.EE.1.b	Restrictions	Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.6	Flare operating hours shall not exceed 2,920 hours per year for the wastewater surge tanks and 1,400 hours per year for the ammonia loading station.	Record Review	Y	C	
V.EE.1.c	Restrictions	Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.6	The permittee shall operate and maintain the enclosed flare at a temperature of 1,570 degrees Fahrenheit or higher with a minimum residence time of 0.50 seconds at all times when emissions from the wastewater surge tanks and/or anhydrous ammonia loading operations are exhausted to the flare.	Design Parameter & Record Review	Y	C	
V.EE.1.d	Restrictions	☐ Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.6	Emissions Limitations: Emissions from Ammonia Flare (B010) shall not exceed the limits listed in Table V-EE-1 at any time:	Direct Measurement, Emission Calculation, & Record Review			
V.EE.1.d	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.EE.1.d	Restrictions		SO ₂ 1 1.5		Y	C	
V.EE.1.d	Restrictions		NO _x 19.8 19.03		Y	C	
V.EE.1.d	Restrictions		CO 0.44 0.95		Y	C	
V.EE.1.d	Restrictions		VOC 0.3 0.49		Y	C	
V.EE.1.d	Restrictions		Ammonia 20 14		Y	C	
V.EE.1.d	Restrictions		A year is defined as any consecutive 12-month period.				
V.EE.2	Testing Requirements	Installation Permit 0052-I002b, January 20, 2005, §2102.04.e and §2108.02	Emissions testing shall be performed once every 5 years in accordance with the Site Level Condition IV.13 above entitled "Emissions Testing Requirements" to determine the VOC destruction efficiency of the enclosed flare and the mass emission rate of nitrogen oxides, sulfur oxides and ammonia.	Record Review	Y	C	
V.EE.3.a	Monitoring Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2103.12.i	The permittee shall monitor and record the operating hours for each operation of the wastewater surge tanks and each loading at the ammonia station.	Record Review	Y	C	
V.EE.3.b	Monitoring Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2103.12.i	The permittee shall continuously monitor and record the temperature of the flare with tolerance +/- 10 degrees Fahrenheit when the equipment is in operation.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.EE.4.a	Record Keeping Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2103.12.j	The results of inspections, episodes of non-compliance with the conditions in Conditions V.EE.1.a through V.EE.1.d above, and corrective actions taken shall be recorded upon occurrence.	Record Review	Y	C	
V.EE.4.b	Record Keeping Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2103.12.j	The permittee shall record the monthly propane usage for the flare and the daily hours of operation of the flare.	Record Review	Y	C	
V.EE.5.a	Reporting Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.6	Monthly fuel usage and monthly hours of operation shall be reported to the Department on an annual basis.	Record Review	Y	C	
V.EE.5.b	Reporting Requirements	Installation Permit 0052-I002b, January 20, 2005 and §2102.04.b.4	Reporting instances of non-compliance does not relieve the permittee of the requirement to report breakdowns in accordance with Site Level Condition IV.8 above, if appropriate.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.FF.1.a	Restrictions	§2105.51	The permittee shall not conduct , or allow to be conducted, abrasive blasting of any surface, structure, or part thereof, which has a total area of 10,000 square feet unless:	Record Review	Y	C	
V.FF.1.a.1	Restrictions		Such abrasive blasting complies with all applicable requirements in §2105.51; and	Record Review	Y	C	
V.FF.1.a.2	Restrictions		The permittee of such surface:	N/A			
V.FF.1.a.2.a	Restrictions		Which has a total area greater than 10,000 square feet, has properly applied for and been issued, by the Department, either an abrasive blasting project permit or annual permit.	Record Review	Y	C	
V.FF.1.a.2.b	Restrictions		Which Has a total area greater than 1,000 square feet but not more than 10,000 squares feet, has properly submitted a notice to the Department	Record Review	Y	C	
V.FF.1.b	Restrictions	§2104.40	The permittee shall not operate, or allow to be operated, the abrasive blasting of coke oven doors in such manner that emissions from the abrasive blasting operation:	N/A			
V.FF.1.b.1	Restrictions		Have an opacity of 20% or more for a period or periods aggregating more than three (3) minutes in any 60 minute period; or	Record Review	Y	C	
V.FF.1.b.2	Restrictions		Have an opacity of 60% or more at any time.	Record Review	Y	C	
V.FF.2	Testing Requirements		None except as provided elsewhere.	N/A			
V.FF.3	Monitoring Requirements		None except as provided elsewhere.	N/A			
V.FF.4	Record Keeping Requirements	§2103.12.j	The permittee shall record and maintain records, on a monthly basis, of the square feet of surface area cleaned by abrasive blasting.	Record Review	Y	C	
V.FF.5	Reporting Requirements		None except as provided elsewhere	N/A			

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.GG.1	Restrictions	§2105.15a	The permittee shall not operate, or allow to be operated, any cold cleaning degreaser with a degreaser opening exceeding ten (10) square feet, unless	N/A			
V.GG.1.A	Restrictions		There is in operation such degreaser:	N/A			
V.GG.1.A.a	Restrictions		A cover to prevent evaporation of solvent during periods of non-use;	Design Parameter	Y	C	
V.GG.1.A.b	Restrictions		Equipment for draining cleaned parts; and	Design Parameter	Y	C	
V.GG.1.A.c	Restrictions		A permanent conspicuous label summarizing the operating requirements set forth in V.GG.1.B below	Design Parameter	Y	C	
V.GG.1.B	Restrictions		Such degreaser is operated at all times in such manner that:	N/A			
V.GG.1.B.a	Restrictions		Waste solvents are transferred to another party or disposed of by means insuring that no more than 20% by weight of the solvents evaporate into the open air;	Record Review	Y	C	
V.GG.1.B.b	Restrictions		Waste solvents are stored in covered containers;	Administrative	Y	C	
V.GG.1.B.c	Restrictions		The degreaser cover is closed when parts are not being processed through the degreaser; and,	Administrative	Y	C	
V.GG.1.B.d	Restrictions		Cleaned parts are drained for at least 15 seconds or until dripping ceases	Administrative	Y	C	
V.GG.2	Testing Requirements		None except as provided elsewhere.	N/A			
V.GG.3	Monitoring Requirements	§2102.04.e	None except as provided elsewhere.	N/A			
V.GG.4	Record Keeping Requirements		The permittee shall keep records of solvent usage (type and amount) on a semiannual basis.	Record Review	Y	C	
V.GG.5	Reporting Requirements		None except as provided elsewhere.	N/A			

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.1	Prohibition of Air Pollution	§2101.11	It shall be a violation of this permit to fail to comply with, or to cause or assist in the violation of, any requirement of this permit, or any order or permit issued pursuant to authority granted by Article XXI. The permittee shall not wilfully, negligently, or through the failure to provide and operate necessary control equipment or to take necessary precautions, operate any source of air contaminants in such manner that emissions from such source:	Administrative Requirement	Y	C	
III.1.a	Prohibition of Air Pollution	§2101.11	Exceed the amounts permitted by this permit or by any order or permit issued pursuant to Article XXI;	Records Review	Y	C*	except as identified in this report
III.1.b	Prohibition of Air Pollution	§2101.11	Cause an exceedance of the ambient air quality standards established by Article XXI §2101.10; or	Administrative Requirement	Y	C	
III.1.c	Prohibition of Air Pollution	§2101.11	May reasonably be anticipated to endanger the public health, safety, or welfare.	Administrative Requirement	Y	C	
III.2.a	Definitions	§2101.20	Except as specifically provided in this permit, terms used retain the meaning accorded them under the applicable provisions and requirements of Article XXI. Whenever used in this permit, or in any action taken pursuant to this permit, the words and phrases shall have the meanings stated, unless the context clearly indicates otherwise.	Administrative Requirement	Y	C	
III.2.b	Definitions	§2101.20	Unless specified otherwise in this permit or in the applicable regulation, the term "year" shall mean any twelve (12) consecutive months.	Administrative Requirement	Y	C	
III.2.c	Definitions	§2101.20	"RACT Plan 234" is defined as the "Plan Approval Order and Agreement No. 234 Upon Consent" dated December 30, 1996.	Administrative Requirement	Y	C	
III.2.d	Definitions	§2101.2	The definitions in 40 CFR Part 63 are hereby incorporated by reference into this permit.	Administrative Requirement	Y	C	
III.3	Conditions	§2102.03.c	It shall be a violation of this permit giving rise to the remedies provided by Article XXI §2109.02, for any person to fail to comply with any terms or conditions set forth in this permit.	Administrative Requirement	Y	C	
III.4	Certification	§2102.01	Any report or compliance certification submitted under this permit shall contain written certification by a responsible official as to truth, accuracy, and completeness. This certification and any other certification required under this permit shall be signed by a responsible official of the source, and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.5	Transfers	§2102.03.e	This permit shall not be transferable from one person to another, except in accordance with Article XXI §2102.03.e and in cases of change-in-ownership which are documented to the satisfaction of the Department, and shall be valid only for the specific sources and equipment for which this permit was issued. The transfer of permits in the case of change-in-ownership may be made consistent with the administrative permit amendment procedure of Article XXI §2103.14.b. The required documentation and fee must be received by the Department at least 30 days before the intended transfer date.	Administrative Requirement	Y	C	
III.6.a	Term	§2103.12.e, §2103.13.a, §2103.23.b	This permit shall remain valid for five (5) years from the date of issuance, or such other shorter period if required by the Clean Air Act, unless revoked pursuant to Article XXI. The terms and conditions of an expired permit shall automatically continue pending issuance of a new operating permit provided the permittee has submitted a timely and complete application and paid applicable fees required under Article XXI Part C, and the Department through no fault of the permittee is unable to issue or deny a new permit before the expiration of the previous permit.	Administrative Requirement	Y	C	
III.6.b	Term	§2103.12.e, §2103.13.a, §2103.23.b	Expiration. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with the requirements of Article XXI Part C.	Administrative Requirement	Y	C	
III.7	Need to Halt or Reduce Activity Not a Defense	§2103.12.f.2	It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.	Administrative Requirement	Y	C	
III.8	Property Rights	§2103.12.f.4	This permit does not convey any property rights of any sort, or any exclusive privilege.	Administrative Requirement	Y	C	
III.9.a	Duty to Provide Information	§2103.12.f.5	The permittee shall furnish to the Department in writing within a reasonable time, any information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of any records required to be kept by the permit.	Administrative Requirement	Y	C	
III.9.b	Duty to Provide Information	§2103.12.f.5	Upon cause shown by the permittee the records, reports, or information, or a particular portion thereof, claimed by the permittee to be confidential shall be submitted to the Department in accordance with the requirements of Article XXI, §2101.07.d.4. Information submitted to the Department under a claim of confidentiality, shall be available to the US EPA and the PADEP upon request and without restriction. Upon request of the permittee the confidential information may be submitted to the USEPA and PADEP directly. Emission data or any portions of any draft, proposed, or issued permits shall not be considered confidential.	Administrative Requirement	Y	C	

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				Method	Y/ N	Type C/I	
III.10	Modification of Section 112 (b) Pollutants which are VOCs or PM10	§2103.12.f.7	Except where precluded under the Clean Air Act or federal regulations promulgated under the Clean Air Act, if this permit limits the emissions of VOCs or PM ₁₀ but does not limit the emissions of any hazardous air pollutants, the mixture of hazardous air pollutants which are VOCs or PM ₁₀ can be modified so long as no permit emission limitations are violated. A log of all mixtures and changes shall be kept and reported to the Department with the next report required after each change.	Report Submission	Y	C	
III.11	Right to Access	§2103.12.h.2	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized Department and other federal, state, county, and local government representatives to:	Administrative Requirement	Y	C	
III.11.a	Right to Access	§2103.12.h.2	Enter upon the permittee's premises where a permitted source is located or an emissions-related activity is conducted, or where records are or should be kept under the conditions of the permit;	Administrative Requirement	Y	C	
III.11.b	Right to Access	§2103.12.h.2	Have access to, copy and remove, at reasonable times, any records that must be kept under the conditions of the permit;	Administrative Requirement	Y	C	
III.11.c	Right to Access	§2103.12.h.2	Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and	Administrative Requirement	Y	C	
III.11.d	Right to Access	§2103.12.h.2	As authorized by either Article XXI or the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements.	Administrative Requirement	Y	C	
III.12.a	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	The permittee shall submit on an annual basis, certification of compliance with all terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification of compliance shall be made consistent with General Condition 4 above and shall include the following information at a minimum:	Report Submission	Y	C	
III.12.a.1	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	The identification of each term or condition of the permit that is the basis of the certification;	Records Review	Y	C	
III.12.a.2	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	The compliance status;	Records Review	Y	C	
III.12.a.3	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	Whether any noncompliance was continuous or intermittent;	Records Review	Y	C	
III.12.a.4	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with the provisions of this permit; and	Records Review	Y	C	
III.12.a.5	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	Such other facts as the Department may require to determine the compliance status of the source.	Administrative Requirement	Y	C	

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				Method	Y/ N	Type C/I	
III.12.b	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	All certifications of compliance must be submitted to the Administrator as well as the Department by March 31 of each year for the time period beginning January 1 and ending December 31 of the previous year. The first report shall be due March 31, 2013 for the time period beginning on the issuance date of this permit through December 31, 2012.	Administrative Requirement	Y	C	
III.12.c	Certification of Compliance	§2103.12.h.5, §2103.22.i.1	The permittee shall submit all compliance certifications to the Administrator as well as the Department. Compliance certifications may be emailed to the Administrator at R3_APD_Permits@epa.gov in lieu of mailing a hard copy.	Administrative Requirement	Y	C	
III.13.a	Record Keeping Requirements	§2103.12.j.1	The permittee shall maintain records of required monitoring information that include the following:	Records Review	Y	C	
III.13.a.1	Record Keeping Requirements	§2103.12.j.1	The date, place as defined in the permit, and time of sampling or measurements;	Records Review	Y	C	
III.13.a.2	Record Keeping Requirements	§2103.12.j.1	The date(s) analyses were performed;	Records Review	Y	C	
III.13.a.3	Record Keeping Requirements	§2103.12.j.1	The company or entity that performed the analyses;	Records Review	Y	C	
III.13.a.4	Record Keeping Requirements	§2103.12.j.1	The analytical techniques or methods used;	Records Review	Y	C	
III.13.a.5	Record Keeping Requirements	§2103.12.j.1	The results of such analyses; and	Records Review	Y	C	
III.13.a.6	Record Keeping Requirements	§2103.12.j.1	The operating parameters existing at the time of sampling or measurement.	Records Review	Y	C	
III.13.b	Record Keeping Requirements	§2103.12.j.1	The permittee shall maintain and make available to the Department, upon request, records including computerized records that may be necessary to comply with the reporting and emission statements in Article XXI §2108.01.e. Such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions	Records Review	Y	C	
III.14	Retention of Records	§2103.12.j.2	The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.	Administrative Requirement	Y	C	
III.15.a	Reporting Requirements	§2103.12.k	The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the Responsible Official.	Report Submission	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.15.b	Reporting Requirements	§2103.12.k	Prompt reporting of deviations from permit requirements is required, including those attributable to upset conditions as defined in this permit and Article XXI §2108.01.c, the probable cause of such deviations, and any corrective actions or preventive measures taken.	Report Submission	Y	C	
III.15.c	Reporting Requirements	§2103.12.k	All reports submitted to the Department shall comply with the certification requirements of General Condition 4 above.	Administrative Requirement	Y	C	
III.15.d	Reporting Requirements	§2103.12.k	Semiannual reports required by this permit shall be submitted to the Department as follows:	Report Submission	Y	C	
III.15.d.1	Reporting Requirements	§2103.12.k	One semiannual report is due by January 31 of each year for the time period beginning July 1 and ending December 31.	Administrative Requirement	Y	C	
III.15.d.2	Reporting Requirements	§2103.12.k	One semiannual report is due by July 31 of each year for the time period beginning January 1 and ending June 30.	Administrative Requirement	Y	C	
III.15.d.3	Reporting Requirements	§2103.12.k	The first semiannual report shall be due January 31, 2013 for the time period beginning on the issuance date of this permit through December 31, 2012.	Administrative Requirement	Y	C	
III.15.e	Reporting Requirements	§2103.12.k	Quarterly reports shall be submitted within 30 days of the end of the calendar quarter.	Administrative Requirement	Y	C	
III.16	Severability Requirement	§2103.12.l	The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.	Administrative Requirement	Y	C	
III.17	Existing Source Reactivations	§2103.13.d	The permittee shall not reactivate any source that has been out of operation or production for a period of one year or more unless the permittee has submitted a reactivation plan request to, and received a written reactivation plan approval from, the Department. Existing source reactivations shall meet all requirements of Article XXI §2103.13.d.	Administrative Requirement	Y	C	
III.18	Administrative Permit Amendment Procedures	§2103.14.b, §2103.24.b	An administrative permit amendment may be made consistent with the procedures of Article XXI §2103.14.b and §2103.24.b. Administrative permit amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder.	Administrative Requirement	Y	C	
III.19	Revisions and Minor Permit Modification Procedures	§2103.14.c, §2103.24.a	Sources may apply for revisions and minor permit modifications on an expedited basis in accordance with Article XXI §2103.14.c and §2103.24.a.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.20	Significant Permit Modifications	§2103.14.d	Significant permit modifications shall meet all requirements of the applicable subparts of Article XXI, Part C, including those for applications, fees, public participation, review by affected States, and review by EPA, as they apply to permit issuance and permit renewal. The approval of a significant permit modification, if the entire permit has been reopened for review, shall commence a new full five (5) year permit term. The Department shall take final action on all such permits within nine (9) months following receipt of a complete application.	Administrative Requirement	Y	C	
III.21	Duty to Comply	§2103.12.f.1, §2103.22.g	The permittee shall comply with all permit conditions and all other applicable requirements at all times. Any permit noncompliance constitutes a violation of the Clean Air Act, the Air Pollution Control Act, and Article XXI and is grounds for any and all enforcement action, including, but not limited to, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.	Administrative Requirement	Y	C	
III.22	Renewals	§2103.13.b., §2103.23.a, §2103.23.b	Renewal of this permit is subject to the same fees and procedural requirements, including those for public participation and affected State and EPA review that apply to initial permit issuance. The application for renewal shall be submitted at least six (6) months but not more than eighteen (18) months prior to expiration of this permit. The application shall also include submission of a supplemental compliance review as required by Article XXI §2102.01.	Report Submission	Y	C	
III.23.a	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	This permit shall be reopened and reissued under any of the following circumstances:	Administrative Requirement	Y	C	
III.23.a.1	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	Additional requirements under the Clean Air Act become applicable to a major source with a remaining permit term of three (3) or more years. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended solely due to the failure of the Department to act on a permit renewal application in a timely fashion.	Administrative Requirement	Y	C	
III.23.a.2	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	Administrative Requirement	Y	C	
III.23.a.3	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.23.a.4	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	The Administrator or the Department determines that this permit must be reissued or revoked to assure compliance with the applicable requirements.	Administrative Requirement	Y	C	
III.23.b	Reopenings for Cause	§2103.15, §2103.25.a, §2103.12.f.3	This permit may be modified; revoked, reopened, and reissued; or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes, for changes that are provided for in this permit	Administrative Requirement	Y	C	
III.24	Reopenings for Cause by the EPA	§2103.25.b	This permit may be modified, reopened and reissued, revoked or terminated for cause by the EPA in accordance with procedures specified in Article XXI §2103.25.b.	Administrative Requirement	Y	C	
III.25	Annual Operating Permit Administration Fee	§2103.40	In each year during the term of this permit, on or before the last day of the month in which the application for this permit was submitted, the permittee shall submit to the Department, in addition to any other applicable administration fees, an Annual Operating Permit Administration Fee in accordance with §2103.40. by check or money order payable to the "Allegheny County Air Pollution Control Fund" in the amount specified in the fee schedule applicable at that time.	Administrative Requirement	Y	C	
III.26	Annual Major Source Emissions Fees Requirements	§2103.41	No later than September 1 of each year, the permittee shall pay an annual emission fee in accordance with Article XXI §2103.41 for each ton of a regulated pollutant (except for carbon monoxide) actually emitted from the source. The permittee shall not be required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant. The emission fee shall be increased in each year after 1995 by the percentage, if any, by which the Consumer Price Index for the most recent calendar year exceeds the Consumer Price Index for the previous calendar year.	Administrative Requirement	Y	C	
III.27	Other Requirements not Affected	§2104.08, §2105.02	Compliance with the requirements of this permit shall not in any manner relieve any person from the duty to fully comply with any other applicable Federal, State, or County statute, rule, regulation, or the like, including but not limited to the odor emission standards under Article XXI §2104.04, any applicable NSPSs, NESHAPs, MACTs, or Generally Achievable Control Technology (GACT) standards now or hereafter established by the EPA, and any applicable requirements of BACT or LAER as provided by Article XXI, any condition contained in any applicable Installation or Operating Permit and/or any additional or more stringent requirements contained in an order issued to such person pursuant to Article XXI Part I.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.28	Termination of Operation	§2108.01.a	In the event that operation of any source of air contaminants is permanently terminated, the person responsible for such source shall so report, in writing, to the Department within 60 days of such termination	Report Submission	Y	C	
III.29.a	Emissions Inventory Statements	§2108.01.e & g	Emissions inventory statements in accordance with Article XXI §2108.01.e, showing the actual emissions of all regulated air pollutants during each calendar year and all supporting information shall be submitted to the Department by March 15 of each year for the preceding calendar year. The Department may require more frequent submittals if the Department determines that more frequent submissions are required by the EPA or that analysis of the data on a more frequent basis is necessary to implement the requirements of Article XXI or the Clean Air Act.	Report Submission	Y	C	
III.29.b	Emissions Inventory Statements	§2108.01.e & g	The failure to submit any report or update within the time specified, the knowing submission of false information, or the willful failure to submit a complete report shall be a violation of this permit giving rise to the remedies provided by Article XXI §2109.02.	Administrative Requirement	Y	C	
III.30	Tests by the Department	§2108.02.d	Notwithstanding any tests conducted pursuant to Article XXI §2108.02, the Department or another entity designated by the Department may conduct emissions testing on any source or air pollution control equipment. At the request of the Department, the person responsible for such source or equipment shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance of such tests.	Administrative Requirement	Y	C	
III.31	Other Rights and Remedies Preserved	§2109.02.b	Nothing in this permit shall be construed as impairing any right or remedy now existing or hereafter created in equity, common law or statutory law with respect to air pollution, nor shall any court be deprived of such jurisdiction for the reason that such air pollution constitutes a violation of this permit.	Administrative Requirement	Y	C	
III.32	Enforcement and Emergency Orders	§2109.03, §2109.05	The person responsible for this source shall be subject to any and all enforcement and emergency orders issued to it by the Department in accordance with Article XXI §2109.03, §2109.04 and §2109.05.	Administrative Requirement	Y	C	
III.32.a	Enforcement and Emergency Orders	§2109.03, §2109.05	Upon request, any person aggrieved by an Enforcement Order or Emergency Order shall be granted a hearing as provided by Article XXI §2109.03.d; provided however, that an Emergency Order shall continue in full force and effect notwithstanding the pendency of any such appeal.	Administrative Requirement	Y	C	
III.32.b	Enforcement and Emergency Orders	§2109.03, §2109.05	Failure to comply with an Enforcement Order or immediately comply with an Emergency Order shall be a violation of this permit thus giving rise to the remedies provided by Article XXI §2109.02	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
III.33	Penalties, Fines, and Interest	§2109.07.a	A source that fails to pay any fee required under this permit when due shall pay a civil penalty of 50% of the fee amount, plus interest on the fee amount computed in accordance with Article XXI §2109.06.a.4 from the date the fee was required to be paid. In addition, the source may have this permit revoked for failure to pay any fee required.	Administrative Requirement	Y	C	
III.34	Appeals	§2109.10	In accordance with State Law and County regulations and ordinances, any person aggrieved by an order or other final action of the Department issued pursuant to Article XXI or any unsuccessful petitioner to the Administrator under Article XXI Part C, Subpart 2, shall have the right to appeal the action to the Director in accordance with the applicable County regulations and ordinances.	Administrative Requirement	Y	C	
III.35	Risk Management	§2104.08, 40 CFR Part 68	This source, as defined in 40 CFR Part 68.3, is subject to Part 68. This stationary source shall submit and maintain a risk management plan (RMP) by the dates specified in Part 68.10. This stationary source shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by <i>General Condition III.12</i> above.	Administrative Requirement	Y	C	
III.36.a	Permit Shield	§2103.22	The permittee's compliance with the conditions of this permit shall be deemed compliance with all major source applicable requirements as of the date of permit issuance, provided that:	Administrative Requirement	Y	C	
III.36.a.1	Permit Shield	§2103.22	Such major source applicable requirements are included and are specifically identified in the permit; or	Administrative Requirement	Y	C	
III.36.a.2	Permit Shield	§2103.22	The Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.	Administrative Requirement	Y	C	
III.36.b	Permit Shield	§2103.22	Nothing in Article XXI §2103.22.e or the Title V Permit shall alter or affect the following:	Administrative Requirement	Y	C	
III.36.b.3	Permit Shield	§2103.22	The provisions of Section 303 of the Clean Air Act and the provisions of Article XXI regarding emergency orders, including the authority of the Administrator and the Department under such provisions;	Administrative Requirement	Y	C	
III.36.b.4	Permit Shield	§2103.22	The liability of any person who owns, operates, or allows to be operated, a source in violation of any major source applicable requirements, prior to or at the time of permit issuance;	Administrative Requirement	Y	C	
III.36.b.5	Permit Shield	§2103.22	The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; or	Administrative Requirement	Y	C	
III.36.b.6	Permit Shield	§2103.22	The ability of the EPA or the County to obtain information from the permittee pursuant to Section 114 of the Clean Air Act, the provisions of Article XXI and State law.	Administrative Requirement	Y	C	

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III.36.c	Permit Shield	§2103.22	Unless precluded by the Clean Air Act or regulations therein, final action by the Department on administrative amendments, minor and significant permit modifications, and operational flexibility changes shall be covered by the permit shield provided such amendments, modifications and changes meet the relevant requirements of Article XXI.	Administrative Requirement	Y	C	
III.36.d	Permit Shield	§2103.22	The permit shield authorized under Article XXI §2103.22 is in effect for the permit terms and conditions as identified in this permit.	Administrative Requirement	Y	C	
III.37	Circumvention	§2104.14	For purposes of determining compliance with the provisions of this permit and Article XXI, no credit shall be given to any person for any device or technique, including but not limited to the operation of any source with unnecessary amounts of air, the combining of separate sources except as specifically permitted by Article XXI and the Department, the use of stacks exceeding Good Engineering Practice height as defined by regulations promulgated by the US EPA at 40 CFR §§51.100 and 51.110 and Subpart I, and other dispersion techniques, which without reducing the amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise violate the provisions of this Article; except that, for purposes of determining compliance with Article §2104.04 concerning odors, credit for such devices or techniques, except for the use of a masking agent, may be given.	Administrative Requirement	Y	C	
III.38	Effect	§2102.03.g	Except as specifically otherwise provided under Article XXI, Part C, issuance of a permit pursuant to Article XXI Part B or Part C shall not in any manner relieve any person of the duty to fully comply with the requirements of this permit, Article XXI or any other provision of law, nor shall it in any manner preclude or affect the right of the Department to initiate any enforcement action whatsoever for violations of this permit or Article XXI, whether occurring before or after the issuance of such permit. Further, except as specifically otherwise provided under Article XXI Part C the issuance of a permit shall not be a defense to any nuisance action, nor shall such permit be construed as a certificate of compliance with the requirements of this permit or Article XXI.	Administrative Requirement	Y	C	
III.39	Installation Permits	§2102.04.a.1	It shall be a violation of this permit giving rise to the remedies set forth in Article XXI Part I for any person to install, modify, replace, reconstruct, or reactivate any source or air pollution control equipment which would require an installation permit or permit modification in accordance with Article XXI Part B or Part C.	Administrative Requirement	Y	C	
III.39.a	Installation Permits	§2102.04.a.1	The Department has first issued an Installation Permit for such source or equipment; or	Administrative Requirement	Y	C	

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III.39.b	Installation Permits	§2102.04.a.1	Such action is solely a reactivation of a source with a current Operating Permit, which is approved under §2103.13 of this Article; or	Administrative Requirement	Y	C	
III.39.c	Installation Permits	§2102.04.a.1	Such source is exempt under subsection a.5 of this section.	Administrative Requirement	Y	C	

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IV.1.a	Visible Emissions	§2104.01.a, b	Except as provided for by Article XXI §2108.01.d pertaining to a cold start of fuel burning or combustion equipment, the permittee shall not operate, or allow to be operated, any source in such manner that the opacity of visible emissions from a flue or process fugitive emissions from such source, excluding uncombined water:	Administrative Requirement	Y	C	
IV.1.a.1	Visible Emissions	§2104.01.a, b	Equal or exceed an opacity of 20% for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period; or,	Records Review	Y	C	
IV.1.a.2	Visible Emissions	§2104.01.a, b	Equal or exceed an opacity of 60% at any time.	Records Review	Y	C	
IV.1.b	Visible Emissions	§2104.01.a, b	Condition IV.1.a above shall not apply to coke ovens or a battery of coke ovens; incinerators; or visible emissions resulting from the cold start of fuel burning or combustion equipment, if such cold start has been reported as required by §2108.01.d.	Administrative Requirement	Y	C	
IV.2	Odor Emissions (County-only enforceable)	§2104.04	The permittee shall not operate, or allow to be operated, any source in such manner that emissions of malodorous matter from such source are perceptible beyond the property line.	Administrative Requirement	Y	C	
IV.3	Materials Handling	§2104.05	The permittee shall not conduct, or allow to be conducted, any materials handling operation in such manner that emissions from such operation are visible at or beyond the property line of the affected source.	Administrative Requirement	Y	C	
IV.4	Operation and Maintenance	§2105.03	All air pollution control equipment required by this permit or any order under Article XXI, and all equivalent compliance techniques approved by the Department, shall be properly installed, maintained, and operated consistently with good air pollution control practice.	Administrative Requirement	Y	C	
IV.5	Open Burning	§2105.50	No person shall conduct, or allow to be conducted, the open burning of any material, except where the Department has issued an Open Burning Permit to such person in accordance with Article XXI §2105.50 or where the open burning is conducted solely for the purpose of non-commercial preparation of food for human consumption, recreation, light, ornament, or provision of warmth for outside workers, and in a manner which contributes a negligible amount of air contaminants.	Administrative Requirement	Y	C	
IV.6.a	PM-10 Self Audit Emergency Action Plan	§2106.05	The permittee shall submit and maintain a PM-10 self audit emergency action plan, consistent with good industrial practice and safe operating procedures, designed to reduce emissions of air contaminants during high concentrations of particulate matter. This plan shall meet the requirements of Condition c below, and shall be consistent with any further guidance developed by the Department in the administration Article XXI §2106.05.	Report Submission	Y	C	
IV.6.b	PM-10 Self Audit Emergency Action Plan	§2106.05	The Plan required by Condition a above shall be in writing and shall specify the system of monitoring particulate matter, the size or sizes of particulate matter that are being monitored, at least three levels of alert stages, and the actions that will be taken by the permittee at each alert stage.	Administrative Requirement	Y	C	

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IV.6.c	PM-10 Self Audit Emergency Action Plan	§2106.05	The Plan shall specify at least three phases of actions, and identify the levels that activate these phases. The goal of the first phase of action shall be to provide for the assurance of proper operation of all units. The goal of the second phase of action shall be to provide reduction of emissions of air contaminants by modifying, ceasing, curtailing, deferring or postponing production and allied operations. The goal of the third phase of action shall be to provide substantial reduction to emissions of air contaminants by modifying, ceasing, curtailing, deferring, or postponing production and allied operations. Curtailment shall be obtained without causing injury to persons or substantial damage to equipment.	Administrative Requirement	Y	C	
IV.6.d	PM-10 Self Audit Emergency Action Plan	§2106.05	This plan shall be kept on site and made available to the Department upon request.	Administrative Requirement	Y	C	
IV.6.e	PM-10 Self Audit Emergency Action Plan	§2106.05	If the Plan, as required by Condition a, is not acceptable to the Department, the Department shall issue an order directing the permittee to modify and resubmit the plan within 30 days after receiving notice. The order shall specify the reason or reasons for disapproval and shall specify the changes or additions necessary to make the plan acceptable to the Department. In the event that the permittee fails to resubmit a plan or fails to resubmit a plan in accordance with the changes or additions recommended by the Department, the Department, in addition to any other remedies available to it under this Article, shall have the authority to issue an order to that person detailing the procedures for an early warning system and emergency plan.	Administrative Requirement	Y	C	
IV.6.f	PM-10 Self Audit Emergency Action Plan	§2106.05	The permittee shall advise the Department in writing of any changes affecting the technical content or the implementation of the plan within 30 days of their occurrence. Such submittals shall be processed according to the procedures described in Subsection e above.	Administrative Requirement	Y	C	
IV.7.a	Shutdown of Control Equipment	§2108.01.b	In the event any air pollution control equipment is shut down for reasons other than a breakdown, the person responsible for such equipment shall report, in writing, to the Department the intent to shut down such equipment at least 24 hours prior to the planned shutdown. Notwithstanding the submission of such report, the equipment shall not be shut down until the approval of the Department is obtained; provided, however, that no such report shall be required if the source(s) served by such air pollution control equipment is also shut down at all times that such equipment is shut down.	Report Submission	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
IV.7.b	Shutdown of Control Equipment	§2108.01.b	The Department shall act on all requested shutdowns as promptly as possible. If the Department does not take action on such requests within ten (10) calendar days of receipt of the notice, the request shall be deemed denied, and upon request, the owner or operator of the affected source shall have a right to appeal in accordance with the provisions of Article XI.	Administrative Requirement	Y	C	
IV.7.c	Shutdown of Control Equipment	§2108.01.b	The prior report required by Site Level Condition IV.7.a above shall include:	Administrative Requirement	Y	C	
IV.7.c.1	Shutdown of Control Equipment	§2108.01.b	Identification of the specific equipment to be shut down, its location and permit number (if permitted), together with an identification of the source(s) affected;	Records Review	Y	C	
IV.7.c.2	Shutdown of Control Equipment	§2108.01.b	The reasons for the shutdown;	Records Review	Y	C	
IV.7.c.3	Shutdown of Control Equipment	§2108.01.b	The expected length of time that the equipment will be out of service;	Records Review	Y	C	
IV.7.c.4	Shutdown of Control Equipment	§2108.01.b	Identification of the nature and quantity of emissions likely to occur during the shutdown;	Records Review	Y	C	
IV.7.c.5	Shutdown of Control Equipment	§2108.01.b	Measures, including extra labor and equipment, which will be taken to minimize the length of the shutdown, the amount of air contaminants emitted, or the ambient effects of the emissions;	Records Review	Y	C	
IV.7.c.6	Shutdown of Control Equipment	§2108.01.b	Measures which will be taken to shut down or curtail the affected source(s) or the reasons why it is impossible or impracticable to shut down or curtail the affected source(s) during the shutdown; and	Records Review	Y	C	
IV.7.c.7	Shutdown of Control Equipment	§2108.01.b	Such other information as may be required by the Department.	Administrative Requirement	Y	C	
IV.8.a	Breakdowns	§2108.01.c	In the event that any air pollution control equipment, process equipment, or other source of air contaminants breaks down in such manner as to have a substantial likelihood of causing the emission of air contaminants in violation of this permit, or of causing the emission into the open air of potentially toxic or hazardous materials, the person responsible for such equipment or source shall immediately, but in no event later than sixty (60) minutes after the commencement of the breakdown, notify the Department of such breakdown and shall, as expeditiously as possible but in no event later than seven (7) days after the original notification, provide written notice to the Department.	Report Submission	Y	C	
IV.8.b	Breakdowns	§2108.01.c	To the maximum extent possible, all oral and written notices required shall include all pertinent facts, including:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.8.b.1	Breakdowns	§2108.01.c	Identification of the specific equipment which has broken down, its location and permit number (if permitted), together with an identification of all related devices, equipment, and other sources which will be affected.	Records Review	Y	C	
IV.8.b.2	Breakdowns	§2108.01.c	The nature and probable cause of the breakdown.	Records Review	Y	C	
IV.8.b.3	Breakdowns	§2108.01.c	The expected length of time that the equipment will be inoperable or that the emissions will continue.	Records Review	Y	C	
IV.8.b.4	Breakdowns	§2108.01.c	Identification of the specific material(s) which are being, or are likely to be emitted, together with a statement concerning its toxic qualities, including its qualities as an irritant, and its potential for causing illness, disability, or mortality.	Records Review	Y	C	
IV.8.b.5	Breakdowns	§2108.01.c	The estimated quantity of each material being or likely to be emitted.	Records Review	Y	C	
IV.8.b.6	Breakdowns	§2108.01.c	Measures, including extra labor and equipment, taken or to be taken to minimize the length of the breakdown, the amount of air contaminants emitted, or the ambient effects of the emissions, together with an implementation schedule.	Records Review	Y	C	
IV.8.b.7	Breakdowns	§2108.01.c	Measures being taken to shut down or curtail the affected source(s) or the reasons why it is impossible or impractical to shut down the source(s), or any part thereof, during the breakdown.	Records Review	Y	C	
IV.8.c	Breakdowns	§2108.01.c	Notices required shall be updated, in writing, as needed to advise the Department of changes in the information contained therein. In addition, any changes concerning potentially toxic or hazardous emissions shall be reported immediately. All additional information requested by the Department shall be submitted as expeditiously as practicable.	Records Review	Y	C	
IV.8.d	Breakdowns	§2108.01.c	Unless otherwise directed by the Department, the Department shall be notified whenever the condition causing the breakdown is corrected or the equipment or other source is placed back in operation by no later than 9:00 AM on the next County business day. Within seven (7) days thereafter, written notice shall be submitted pursuant to Conditions a and b above.	Report Submission	Y	C	
IV.8.e	Breakdowns	§2108.01.c	Breakdown reporting shall not apply to breakdowns of air pollution control equipment which occur during the initial startup of said equipment, provided that emissions resulting from the breakdown are of the same nature and quantity as the emissions occurring prior to startup of the air pollution control equipment.	Administrative Requirement	Y	C	
IV.8.f	Breakdowns	§2108.01.c	In no case shall the reporting of a breakdown prevent prosecution for any violation of this permit or Article XXI.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.9	Cold Start	§2108.01.d	In the event of a cold start on any fuel burning or combustion equipment, except stationary internal combustion engines and combustion turbines used by utilities to meet peak load demands, the person responsible for such equipment shall report in writing to the Department the intent to perform such cold start at least 24 hours prior to the planned cold start. Such report shall identify the equipment and fuel(s) involved and shall include the expected time and duration of the startup. Upon written application from the person responsible for fuel-burning or combustion equipment which is routinely used to meet peak load demands and which is shown by experience not to be excessively emissive during a cold start, the Department may waive these requirements and may instead require periodic reports listing all cold starts which occurred during the report period. The Department shall make such a waiver in writing, specifying such terms and conditions are appropriate to achieve purposes of Article XXI. Such waiver may be terminated by the Department at any time by written notice to applicant.	Report Submission	Y	C	Waiver granted; reports submitted as required
IV.10	Monitoring of Malodorous Matter Beyond Facility Boundaries (County-Only Enforceable)	§2104.04	The permittee shall take all reasonable action as may be necessary to prevent malodorous matter from becoming perceptible beyond facility boundaries. Further, the permittee shall perform such observations as may be deemed necessary along facility boundaries to insure that malodorous matter beyond the facility boundary in accordance with Article XXI §2107.13 is not perceptible and record all findings and corrective action measures taken.	Administrative Requirement	Y	C	
IV.11	Orders	§2108.01.f	In addition to meeting the requirements of General Condition III.28 and III.29, and Site Level Conditions IV.7 through IV.9, inclusive, the person responsible for any source shall, upon order by the Department, report to the Department such information as the Department may require in order to assess the actual and potential contribution of the source to air quality. The order shall specify a reasonable time in which to make such a report.	Report Submission	Y	C	
IV.12	Violations	§2108.01.g	The failure to submit any report or update thereof required by General Condition III.28 and Site Level Conditions IV.7 through IV.11 above, inclusive, within the time specified, the knowing submission of false information, or the willful failure to submit a complete report shall be a violation of this permit giving rise to the remedies provided by Article XXI §2109.02.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.13.a	Emissions Testing	§2108.02	On or before December 31, 1981, and at two-year intervals thereafter, any person who operates, or allows to be operated, any piece of equipment or process which has an allowable emission rate, of 100 or more tons per year of particulate matter, sulfur oxides or volatile organic compounds shall conduct, or cause to be conducted, for such equipment or process such emissions tests as are necessary to demonstrate compliance with the applicable emission limitations) of this permit and shall submit the results of such tests to the Department in writing. Emissions testing conducted pursuant to this section shall comply with all applicable requirements of Article XXI §2108.02.	Report Submission	Y	C	
IV.13.b	Emissions Testing	§2108.02	Orders. In addition to meeting the requirements of Site Level Condition IV.13.a above, the person responsible for any source shall, upon order by the Department, conduct, or cause to be conducted, such emissions tests as specified by the Department within such reasonable time as is specified by the Department. Test results shall be submitted in writing to the Department within 20 days after completion of the tests, unless a different period is specified in the Department's order. Emissions testing shall comply with all applicable requirements of Article XXI §2108.02.e.	Report Submission	Y	C	
IV.13.c	Emissions Testing	§2108.02	Tests by the Department. Notwithstanding any tests conducted pursuant to Site Level Conditions IV.13.a and IV.13.b above, the Department or another entity designated by the Department may conduct emissions testing on any source or air pollution control equipment. At the request of the Department, the person responsible for such source or equipment shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance of such tests.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.13.d	Emissions Testing	§2108.02	Testing Requirements. No later than 45 days prior to conducting any tests required by this permit, the person responsible for the affected source shall submit for the Department's approval a written test protocol explaining the intended testing plan, including any deviations from standard testing procedures, the proposed operating conditions of the source during the test, calibration data for specific test equipment and a demonstration that the tests will be conducted under the direct supervision of persons qualified by training and experience satisfactory to the Department to conduct such tests. In addition, at least 30 days prior to conducting such tests, the person responsible shall notify the Department in writing of the time(s) and date(s) on which the tests will be conducted and shall allow Department personnel to observe such tests, record data, provide pre-weighed filters, analyze samples in a County laboratory and to take samples for independent analysis. Test results shall be comprehensively and accurately reported in the units of measurement specified by the applicable emission limitations of this permit.	Report Submission	Y	C	
IV.13.e	Emissions Testing	§2108.02	Test methods and procedures shall conform to the applicable reference method set forth in this permit or Article XXI Part G, or where those methods are not applicable, to an alternative sampling and testing procedure approved by the Department consistent with Article XXI §2108.02 c.2.	Administrative Requirement	Y	C	
IV.13.f	Emissions Testing	§2108.02	Violations. The failure to perform tests as required by this permit or an order of the Department, the failure to submit test results within the time specified, the knowing submission of false information, the willful failure to submit complete results, or the refusal to allow the Department, upon presentation of a search warrant, to conduct tests, shall be a violation of this permit giving rise to the remedies provided by Article XXI §2109.02.	Administrative Requirement	Y	C	
IV.14	Asbestos Abatement <i>County-only Enforceable</i>	§2105.62, §2105.63	In the event of removal, encasement, or encapsulation of Asbestos-Containing Material (ACM) at a facility or in the event of the demolition of any facility, the permittee shall comply with all applicable provisions of Article XXI §2105.62 and §2105.63.	Administrative Requirement	Y	C	
IV.15	National Emission Standard for Asbestos	40 CFR§61.145 and §61.150	In the event of demolition or renovation of asbestos, the permittee shall also comply with all applicable provisions of 40 CFR §61.145 and 40 CFR §61.150.	Administrative Requirement	Y	C	
IV.16.a	Protection of Stratospheric Ozone	40 CFR Part 82	Permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.16.a.1	Protection of Stratospheric Ozone	40 CFR Part 82	All containers in which a Class I or Class II substance is stored or transported, all products containing a Class I substance, and all products directly manufactured with a process that uses a Class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106;	Records Review	Y	C	
IV.16.a.2	Protection of Stratospheric Ozone	40 CFR Part 82	The placement of the required warning statement must comply with the requirements pursuant to §82.108;	Records Review	Y	C	
IV.16.a.3	Protection of Stratospheric Ozone	40 CFR Part 82	The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110; and	Records Review	Y	C	
IV.16.a.4	Protection of Stratospheric Ozone	40 CFR Part 82	No person may modify, remove or interfere with the required warning statement except as described in §82.112.	Records Review	Y	C	
IV.16.b	Protection of Stratospheric Ozone	40 CFR Part 82	Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F:	Administrative Requirement	Y	C	
IV.16.b.1	Protection of Stratospheric Ozone	40 CFR Part 82	Persons opening appliances for maintenance, service, repair or disposal must comply with the prohibitions and required practices pursuant to §82.154 and §82.156;	Records Review	Y	C	
IV.16.b.2	Protection of Stratospheric Ozone	40 CFR Part 82	Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158;	Records Review	Y	C	
IV.16.b.3	Protection of Stratospheric Ozone	40 CFR Part 82	Persons maintaining, servicing, repairing or disposing of appliances, must be certified by an approved technician certification program pursuant to §82.161;	Records Review	Y	C	
IV.16.b.4	Protection of Stratospheric Ozone	40 CFR Part 82	Persons maintaining, servicing, repairing or disposing of appliances must certify to the Administrator of the U.S. Environmental Protection Agency pursuant to §82.162;	Records Review	Y	C	
IV.16.b.5	Protection of Stratospheric Ozone	40 CFR Part 82	Persons disposing of small appliances, motor vehicle air conditioners (MVAC) and MVAC-like appliances, must comply with the record keeping requirements pursuant to §82.166;	Records Review	Y	C	
IV.16.b.6	Protection of Stratospheric Ozone	40 CFR Part 82	Owners of commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156; and	Records Review	Y	C	
IV.16.b.7	Protection of Stratospheric Ozone	40 CFR Part 82	Owners or operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.	Records Review	Y	C	
IV.16.c	Protection of Stratospheric Ozone	40 CFR Part 82	If the permittee manufactures, transforms, destroys, imports or exports a Class I or Class II substance, the Permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A (Production and Consumption Controls).	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.16.d	Protection of Stratospheric Ozone	40 CFR Part 82	If the permittee performs a service on a motor vehicle that involves an ozone-depleting substance, refrigerant or regulated substitute substance in the MVAC, the Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B (Servicing of Motor Vehicle Air Conditioners).	Administrative Requirement	Y	C	
IV.16.e	Protection of Stratospheric Ozone	40 CFR Part 82	The permittee may switch from any ozone-depleting substance to any alternative that is listed as acceptable in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G.	Administrative Requirement	Y	C	
IV.17	Volatile Organic Compound Storage Tanks	§2105.12.a	No person shall place or store, or allow to be placed or stored, a volatile organic compound having a vapor pressure of 1.5 psia or greater under actual storage conditions in any aboveground stationary storage tank having a capacity equal to or greater than 2,000 gallons but less than or equal to 40,000 gallons, unless there is in operation on such tank pressure relief valves which are set to release at the higher of 0.7 psig of pressure or 0.3 psig of vacuum or at the highest possible pressure and vacuum in accordance with State or local fire codes, National Fire Prevention Association guidelines, or other national consensus standard approved in writing by the Department. Petroleum liquid storage vessels that are used to store produced crude oil and condensate prior to lease custody transfer are exempt from these requirements.	Administrative Requirement	Y	C	
IV.18.a	Permit Source Premises	§2105.40	General. No person shall operate, or allow to be operated, any source for which a permit is required by Article XXI Part C in such manner that emissions from any open land, roadway, haul road, yard, or other premises located upon the source or from any material being transported within such source or from any source-owned access road, haul road, or parking lot over five (5) parking spaces:	Administrative Requirement	Y	C	
IV.18.a.1	Permit Source Premises	§2105.40	Are visible at or beyond the property line of such source;	Records Review	Y	C	
IV.18.a.2	Permit Source Premises	§2105.40	Have an opacity of 20% or more for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period; or	Records Review	Y	C	
IV.18.a.3	Permit Source Premises	§2105.40	Have an opacity of 60% or more at any time.	Records Review	Y	C	
IV.18.b	Permit Source Premises	§2105.40	Deposition on Other Premises. Visible emissions from any solid or liquid material that has been deposited by any means from a source onto any other premises shall be considered emissions from such source within the meaning of Site Level Condition IV.18.a above.	Records Review	Y	C	
IV.19.a	Parking Lots and Roadways	§2105.42	The permittee shall not maintain for use, or allow to be used, any parking lot over 50 parking spaces or used by more than 50 vehicles in any day or any other roadway carrying more than 100 vehicles in any day or 15 vehicles in any hour in such manner that emissions from such parking lot or roadway:	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.19.a.7	Parking Lots and Roadways	§2105.42	Are visible at or beyond the property line;	Records Review	Y	C	
IV.19.a.8	Parking Lots and Roadways	§2105.42	Have an opacity of 20% or more for a period or periods aggregating more than three (3) minutes in any 60 minute period; or	Records Review	Y	C	
IV.19.a.9	Parking Lots and Roadways	§2105.42	Have an opacity of 60% or more at any time.	Records Review	Y	C	
IV.19.b	Parking Lots and Roadways	§2105.42	Visible emissions from any solid or liquid material that has been deposited by any means from a parking lot or roadway onto any other premises shall be considered emissions from such parking lot or roadway.	Administrative Requirement	Y	C	
IV.19.c	Parking Lots and Roadways	§2105.42	Site Level Condition IV.19.a above shall apply during any repairs or maintenance done to such parking lot or roadway.	Administrative Requirement	Y	C	
IV.19.d	Parking Lots and Roadways	§2105.42	Notwithstanding any other provision of this permit, the prohibitions of Site Level Condition IV.19 may be enforced by any municipal or local government unit having jurisdiction over the place where such parking lots or roadways are located. Such enforcement shall be in accordance with the laws governing such municipal or local government unit. In addition, the Department may pursue the remedies provided by Article XXI §2109.02 for any violations of Site Level Condition IV.19.	Administrative Requirement	Y	C	
IV.20.a	Permit Source Transport	§2105.43	No person shall transport, or allow to be transported, any solid or liquid material outside the boundary line of any source for which a permit is required by Article XXI Part C in such manner that there is any visible emission, leak, spill, or other escape of such material during transport.	Administrative Requirement	Y	C	
IV.20.b	Permit Source Transport	§2105.43	Notwithstanding any other provision of this permit, the prohibitions of Site Level Condition IV.20 may be enforced by any municipal or local government unit having jurisdiction over the place where such visible emission, leak, spill, or other escape of material during transport occurs. Such enforcement shall be in accordance with the laws governing such municipal or local government unit. In addition, the Department may pursue the remedies provided by Article XXI §2109.02 for any violation of Site Level Condition IV.20.	Administrative Requirement	Y	C	
IV.21.a	Construction and Land Clearing	§2105.45	No person shall conduct, or allow to be conducted, any construction or land clearing activities in such manner that the opacity of emissions from such activities:	Administrative Requirement	Y	C	
IV.21.a.1	Construction and Land Clearing	§2105.45	Equal or exceed 20% for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period; or	Records Review	Y	C	
IV.21.a.2	Construction and Land Clearing	§2105.45	Equal or exceed 60% at any time.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
IV.21.b	Construction and Land Clearing	§2105.45	Notwithstanding any other provision of this permit, the prohibitions of Site Level Condition IV.21 may be enforced by any municipal or local government unit having jurisdiction over the place where such construction or land clearing activities occur. Such enforcement shall be in accordance with the laws governing such municipal or local government unit. In addition, the Department may pursue the remedies provided by Article XXI §2109.02 for any violations of Site Level Condition IV.21.	Administrative Requirement	Y	C	
IV.22	Mining	§2105.46	No person shall conduct, or allow to be conducted, any mining activities in such manner that emissions from such activities:	Administrative Requirement	Y	C	
IV.22.a	Mining	§2105.46	Are visible at or beyond the property line;	Records Review	Y	C	
IV.22.b	Mining	§2105.46	Have an opacity of 20% or more for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period; or,	Records Review	Y	C	
IV.22.c	Mining	§2105.46	Have an opacity of 60% or more at any time.	Records Review	Y	C	
IV.23.a	Demolition	§2105.47	No person shall conduct, or allow to be conducted, any demolition activities in such manner that the opacity of the emissions from such activities equal or exceed 20% for a period or periods aggregating more than three (3) minutes in any 60 minute period.	Records Review	Y	C	
IV.23.b	Demolition	§2105.47	Notwithstanding any other provisions of this permit, the prohibitions of Site Level Condition IV.23 may be enforced by any municipal or local government unit having jurisdiction over the place where such demolition activities occur. Such enforcement shall be in accordance with the laws governing such municipal or local government unit. In addition, the Department may pursue the remedies provided by Article XXI §2109.02 for any violations of Site Level Condition IV.23.	Administrative Requirement	Y	C	
IV.24	Fugitive Emissions	§2105.49	The person responsible for a source of fugitive emissions, in addition to complying with all other applicable provisions of this permit shall take all reasonable actions to prevent fugitive air contaminants from becoming airborne. Such actions may include, but are not limited to:	Administrative Requirement	Y	C	
IV.24.a	Fugitive Emissions	§2105.49	The use of asphalt, oil, water, or suitable chemicals for dust control;	Records Review	Y	C	
IV.24.b	Fugitive Emissions	§2105.49	The paving and maintenance of roadways, parking lots and the like;	Records Review	Y	C	
IV.24.c	Fugitive Emissions	§2105.49	The prompt removal of earth or other material which has been deposited by leaks from transport, erosion or other means;	Records Review	Y	C	
IV.24.d	Fugitive Emissions	§2105.49	The adoption of work or other practices to minimize emissions;	Records Review	Y	C	
IV.24.e	Fugitive Emissions	§2105.49	Enclosure of the source; and	Records Review	Y	C	
IV.24.f	Fugitive Emissions	§2105.49	The proper hooding, venting, and collection of fugitive emissions.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.25	Episode Plans	§2106.02	The permittee shall upon written request of the Department, submit a source curtailment plan, consistent with good industrial practice and safe operating procedures, designed to reduce emissions of air contaminants during air pollution episodes. Such plans shall meet the requirements of Article XXI §2106.02.	Report Submission	Y	C	
IV.26.a	New Source Performance Standards	§2105.05	It shall be a violation of this permit giving rise to the remedies provided by §2109.02 of Article XXI for any person to operate, or allow to be operated, any source in a manner that does not comply with all requirements of any applicable NSPS now or hereafter established by the EPA, except if such person has obtained from EPA a waiver pursuant to Section 111 or Section 129 of the Clean Air Act or is otherwise lawfully temporarily relieved of the duty to comply with such requirements.	Administrative Requirement	Y	C	
IV.26.b	New Source Performance Standards	§2105.05	Any person who operates, or allows to be operated, any source subject to any NSPS shall conduct, or cause to be conducted, such tests, measurements, monitoring and the like as is required by such standard. All notices, reports, test results and the like as are required by such standard shall be submitted to the Department in the manner and time specified by such standard. All information, data and the like which is required to be maintained by such standard shall be made available to the Department upon request for inspection and copying.	Administrative Requirement	Y	C	
IV.27.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The permittee shall prepare and submit to the Department a written emission control work practice plan for each coke oven battery. The plan shall be designed to achieve compliance with visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations in V.A.1.j below V.C.1.i, V.E.1.j, and V.G.1.i below. [§2103.12.h.6: §63.306(a)]	Report Submission	Y	C	
IV.27.a.1	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The work practice plan must address each of the topics specified in Condition IV.27.b below in sufficient detail and with sufficient specificity to allow the Department to evaluate the plan for completeness and enforceability.	Records Review	Y	C	
IV.27.a.2	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The Department may require revisions to the initial plan only where the Department finds either that the plan does not address each subject area listed in Condition IV.27.b below for each emission point subject to a visible emission standard under Condition V.A.1.j below, or that the plan is unenforceable because it contains requirements that are unclear.	Administrative Requirement	Y	C	
IV.27.a.3	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	During any period of time that the permittee is required to implement the provisions of a plan for a particular emission point, the failure to implement one or more obligations under the plan and/or any recordkeeping requirement(s) under Condition V.A.4.a.2) below for the emission point during a particular day is a single violation.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
IV.27.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The permittee shall organize the work practice plan to indicate clearly which parts of the plan pertain to each emission point subject to visible emission standards under 40 CFR Part 63 Subpart L. Each of the following provisions, at a minimum, shall be addressed in the plan: [§2103.12.h.6; §63.306(b)]	Administrative Requirement	Y	C	
IV.27.b.1	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	An initial and refresher training program for all coke plant operating personnel with responsibilities that impact emissions, including contractors, in job requirements related to emission control and the requirements of 40 CFR 63, Subpart L, including work practice requirements. Contractors with responsibilities that impact emission control may be trained by the permittee or by qualified contractor personnel; however, the permittee shall ensure that the contractor training program complies with the requirements of Condition IV.27.b above. The training program in the plan must include [§2103.12.h.6; §63.306(b)(1)]:	Administrative Requirement	Y	C	
IV.27.b.1.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A list, by job title, of all personnel that are required to be trained and the emission point(s) associated with each job title;	Records Review	Y	C	
IV.27.b.1.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	An outline of the subjects to be covered in the initial and refresher training for each group of personnel;	Records Review	Y	C	
IV.27.b.1.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A description of the training method(s) that will be used (e.g., lecture, video tape);	Records Review	Y	C	
IV.27.b.1.d	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A statement of the duration of initial training and the duration and frequency of refresher training;	Records Review	Y	C	
IV.27.b.1.e	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion of the initial and refresher training; and	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.b.1.f	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A description of the procedure to be used to document performance of plan requirements pertaining to daily operation of the coke oven battery and its emission control equipment, including a copy of the form to be used, if applicable, as required under the plan provisions implementing Condition IV.27.b.6) below.	Records Review	Y	C	
IV.27.b.2	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for controlling emissions from coke oven doors, including [§2103.12.h.6.; §63.306(b)(2)]:	Administrative Requirement	Y	C	
IV.27.b.2.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	A program for the inspection, adjustment, repair, and replacement of coke oven doors and jambs, and any other equipment for controlling emissions from coke oven doors, including a defined frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances.	Records Review	Y	C	
IV.27.b.2.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for identifying leaks that indicate a failure of the emissions control equipment to function properly, including a clearly defined chain of command for communicating information on leaks and procedures for corrective action;	Records Review	Y	C	
IV.27.b.2.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for cleaning all sealing surfaces of each door and jamb, including identification of the equipment that will be used and a specified schedule or frequency for the cleaning of sealing surfaces;	Records Review	Y	C	
IV.27.b.2.d	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	For batteries equipped with self-sealing doors, procedures for use of supplemental gasketing and luting materials, if the permittee elects to use such procedures as part of the program to prevent exceedances;	Records Review	Y	C	
IV.27.b.2.e	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	For batteries equipped with hand-luted doors, procedures for luting and reluting, as necessary to prevent exceedances;	Records Review	Y	C	
IV.27.b.2.f	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for maintaining an adequate inventory of the number of spare coke oven doors and jambs located onsite; and	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.b.2.g	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for monitoring and controlling collecting main back pressure, including corrective action if pressure control problems occur.	Records Review	Y	C	
IV.27.b.3	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for controlling emissions from charging operations, including [§2103.12.h.6.; §63.306(b)(3)]:	Administrative Requirement	Y	C	
IV.27.b.3.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for equipment inspection, including the frequency of inspections, and replacement or repair of equipment for controlling emissions from charging, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances:	Records Review	Y	C	
IV.27.b.3.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for ensuring that the larry car hoppers are filled properly with coal;	Records Review	Y	C	
IV.27.b.3.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for the alignment of the larry car over the oven to be charged;	Records Review	Y	C	
IV.27.b.3.d	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for filling the oven (e.g., procedures for staged or sequential charging);	Records Review	Y	C	
IV.27.b.3.e	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for ensuring that the coal is leveled properly in the oven; and	Records Review	Y	C	
IV.27.b.3.f	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures and schedules for inspection and cleaning of offtake systems (including standpipes, standpipe caps, goosenecks, dampers, and mains), oven roofs, charging holes, topside port lids, the steam supply system, and liquor sprays.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.b.4	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for controlling emissions from topside port lids, including [§2103.12.h.6.; §63.306(b)(4)]:	Administrative Requirement	Y	C	
IV.27.b.4.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for equipment inspection and replacement or repair of topside port lids and port lid mating and sealing surfaces, including the frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances; and	Records Review	Y	C	
IV.27.b.4.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for sealing topside port lids after charging, for identifying topside port lids that leak, and procedures for resealing.	Records Review	Y	C	
IV.27.b.5	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for controlling emissions from offtake system(s) on by-product coke oven batteries, including [§2103.12.h.6.; §63.306(b)(5)]:	Administrative Requirement	Y	C	
IV.27.b.5.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for equipment inspection and replacement or repair of offtake system components, including the frequency of inspections, the method to be used to evaluate conformance with operating specifications for each type of equipment, and the method to be used to audit the effectiveness of the inspection and repair program for preventing exceedances;	Records Review	Y	C	
IV.27.b.5.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for identifying offtake system components that leak and procedures for sealing leaks that are detected; and	Records Review	Y	C	
IV.27.b.5.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for dampering off ovens prior to a push.	Records Review	Y	C	
IV.27.b.6	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for maintaining, for each emission point subject to visible emission limitations in Condition V.A.1.j below, a daily record of the performance of plan requirements pertaining to the daily operation of the coke oven battery and its emission control equipment, including [§2103.12.h.6.; §63.306(b)(7)]:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.b.6.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for recording the performance of such plan requirements; and	Records Review	Y	C	
IV.27.b.6.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Procedures for certifying the accuracy of such records by the permittee.	Records Review	Y	C	
IV.27.b.7	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Any additional work practices or requirements specified by the Department according to Condition IV.27.d below [§2103.12.h.6.; §63.306(b)(8)].	Records Review	Y	C	
IV.27.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The permittee shall implement the provisions of the coke oven emission control work practice plan according to the following requirements: [§2103.12.h.6.; §63.306(c)]	Administrative Requirement	Y	C	
IV.27.c.1	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Implement the provisions of the work practice plan pertaining to a particular emission point following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer. For the purpose of this Condition IV.27.c.1), the second exceedance is "independent" if either of the following criteria are met [§2103.12.h.6.; §63.306(c)(1)(i)]:	Records Review	Y	C	
IV.27.c.1.a	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The second exceedance occurs 30 days or more after the first exceedance;	Records Review	Y	C	
IV.27.c.1.b	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	In the case of coke oven doors, topside port lids, and offtake systems, the 29-run average, calculated by excluding the highest value in the 30-day period, exceeds the value of the applicable emission limitation; or	Records Review	Y	C	
IV.27.c.1.c	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	In the case of charging emissions, the 29-day logarithmic average, calculated in accordance with Method 303 in Appendix A to 40 CFR Part 63 by excluding the valid daily set of observations in the 30-day period that had the highest arithmetic average, exceeds the value of the applicable emission limitation.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.c.2	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	Continue to implement such plan provisions until the visible emission limitation for the emission point is achieved for 90 consecutive days if work practice requirements are implemented pursuant to Condition IV.27.c.1) above. After the visible emission limitation for a particular emission point is achieved for 90 consecutive days, any exceedances prior to the beginning of the 90 days are not included in making a determination under Condition IV.27.c.1) above [§2103.12.h.6.; §63.306(c)(1)(ii)].	Records Review	Y	C	
IV.27.d	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The permittee may be required to revise the work practice emission control plan according to the following provisions [§2103.12.h.6.; §63.306(d)]:	Administrative Requirement	Y	C	
IV.27.d.1	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The Department may request the permittee to review and revise as needed the work practice emission control plan for a particular emission point if there are 2 exceedances of the applicable visible emission limitation in the 6-month period that starts 30 days after the permittee is required to implement work practices under Condition IV.27.c above. In the case of a coke oven battery subject to visual emission limitations under 40 CFR Part 63, Subpart L, the second exceedance must be independent under the criteria in Condition IV.27.c.1) above. [§2103.12.h.6; §63.306(d)(1)]	Records Review	Y	C	
IV.27.d.2	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The Department may not request the permittee to review and revise the plan more than twice in any 12 consecutive month period for any particular emission point unless the Department disapproves the plan according to the provisions in Condition IV.27.d.6) below. [§2103.12.h.6; §63.306(d)(2)]	Administrative Requirement	Y	C	
IV.27.d.3	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	If the certified observer calculates that a second exceedance (or, if applicable, a second independent exceedance) has occurred, the certified observer shall notify the permittee. No later than 10 days after receipt of such a notification, the permittee shall notify the Department of any finding of whether work practices are related to the cause or the solution of the problem. This notification is subject to review by the Department according to the provisions in Condition IV.27.d.6) below. [§2103.12.h.6; §63.306(d)(3)]	Administrative Requirement	Y	C	
IV.27.d.4	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The permittee shall submit a revised work practice plan within 60 days of notification from the Department under IV.27.d.1) above, unless the Department grants an extension of time to submit the revised plan. [§2103.12.h.6; §63.306(d)(4)]	Report Submission	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.27.d.5	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	If the Department requires a plan revision, the Department may require the plan to address a subject area or areas in addition to those in Condition IV.27.b above, if the Department determines that without plan coverage of such an additional subject area, there is a reasonable probability of further exceedances of the visible emission limitation for the emission point for which a plan revision is required. [§2103.12.h.6; §63.306(d)(5)]	Administrative Requirement	Y	C	
IV.27.d.6	Work Practice Plan Requirements for 40 CFR Part 63 Subpart L	40 CFR Part 63 Subpart L	The Department may disapprove a plan revision required under Condition IV.27.d above if the Department determines that the revised plan is inadequate to prevent exceedances of the visible emission limitation in V.A.1.j below for the emission point for which a plan revision is required or, in the case of a battery not subject to visual emission limitations under this subpart, other federally enforceable emission limitations for such emission point. The Department may also disapprove the finding that may be submitted pursuant to Condition IV.27.d.3) above if the Department determines that a revised plan is needed to prevent exceedances of the applicable visible emission limitations. [§2103.12.h.6; §63.306(d)(6)]	Administrative Requirement	Y	C	
IV.28.a	NOx Budget Trading Program		Clairton boilers B001 and B002 are NOx Budget units as defined in 25 Pa. Code §145.2. The permittee shall meet the requirements of the PA NOx Budget Trading Program (25 PA Code §145 Subchapter A) for non-EGUs.	Administrative Requirement	Y	C	
IV.28.b	NOx Budget Trading Program		The permittee shall meet the monitoring and reporting requirements of 40CFR Part 96, Subpart HHHH (relating to monitoring and reporting) and shall maintain general accounts and account representatives in accordance with 40 CFR Part 96, Subparts BBBB and FFFF (relating to CAIR designated representative for CAIR NOx ozone season sources and CAIR NOx ozone season allowance tracking system).	Records Review	Y	C	
IV.28.c	NOx Budget Trading Program		Upon request the permittee shall provide a copy of all reports provided to the PADEP required by Condition IV.28.b above	Report Submission	Y	C	
IV.29	Consent Order and Agreement		Until terminated, the following Consent Decree and Consent Orders and Agreements and subsequent amendments and revisions that apply to U.S. Steel Clairton, are hereby incorporated by reference into this permit:	Administrative Requirement	Y	C	
IV.29.1	Consent Order and Agreement		<i>Second Consent Decree, Civil Actions Nos. 79-709, 91-329, December 11, 1992.</i>	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
IV.29.2	Consent Order and Agreement		<i>Consent Order and Agreement (COA), Third Amendment, July 6, 2011.</i>	Administrative Requirement	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
IV.29.3	Consent Order and Agreement		<i>Enforcement Order No. 161 Upon Consent, July 23, 1990, Section 202.E.</i>	Administrative Requirement	Y	C	
IV.29.4	Consent Order and Agreement		<i>Enforcement Order No. 200 Upon Consent, November 18, 1999.</i>	Administrative Requirement	Y	C	
IV.29.5	Consent Order and Agreement		<i>Enforcement Order and Agreement Upon Consent Number 234, Reasonably Available Control Technology (RACT), January 2, 1997 .</i>	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.1.a	Restrictions	2103.12.h.6; 63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.b	Restrictions	§2103.12.h.6.; §63.307(a)(2)	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system, or the alternative control device as described in V.A.1.c below.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system.	Administrative Requirement	Y	C	
V.A.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.A.1.e	Restrictions	§2103.12.h.6.; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.f	Restrictions	§2105.21.b.5	The permittee shall not operate, or allow to be operated, coke oven batteries 1, 2 or 3 unless there is installed big plug doors on the coke side of each oven. A big plug door is a door that, when installed, contains a plug with minimum dimensions of 18-1/4" minimum width and 14-1/2" minimum depth.	Process Knowledge & Physical Inspection	Y	C	The compliance certification contained in this submittal is based on the understanding that big plug doors meet the specified dimensions when initially installed except that portion of the plug located in the tunnel head above the design coal line. The plugs may experience inconsequential dimensional changes over time in the course of normal operation.
V.A.1.g	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	
V.A.1.h	Restrictions	§2105.21.h; §2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.1.i	Restrictions	§2103.12.h.6.; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.A.1.a through V.A.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	Direct Measurement & Record Review	Y	C	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.j	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative Requirement	Y	C	
V.A.1.j.1	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	3.3 percent leaking coke oven doors as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.A.1.j.2	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	0.4 percent leaking topside port lids, as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.A.1.ij3	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.A.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.A.1.j.4	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	12 seconds of visible emissions per charge, as determined by the procedures in Condition V.A.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.A.1.k	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Record Review	Y	C	
V.A.1.l	Restrictions	§2105.21.a.2	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 75 seconds during any four (4) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C	
V.A.1.m	Restrictions	§2105.21	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.n	Restrictions	§2105.21.b.3.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than eight percent (8%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.A.1.o	Restrictions	§2105.21.c.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than two percent (2%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.1.p	Restrictions	§2105.21.d.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.q	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.r	Restrictions	§2105.21.f.2	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.030 grains per dry standard cubic foot.	Direct Measurement & Record Review	Y	C	
V.A.1.s	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative Requirement	Y	C	
V.A.1.t.1	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.A.1.t.2	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.A.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	
V.A.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; §2103.12.e; §2101.11.b & c.	Emissions from each combustion stack for Coke Batteries No. 1, No. 2 or No. 3 shall not exceed the emission limitations in Table V-A-1.	Administrative Requirement	Y	C	
V.A.1.v.1	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.A.1.v.1	Restrictions		PM 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		PM-10 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		PM 2.5 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		SO2 31.8 139.46		Y	C	
V.A.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM _{2.5} and PM ₁₀ particulate emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.A.1.r above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.A.2.b	Testing	§2108.02.b. & e	The permittee shall have sulfur dioxide (SO ₂) emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.A.1.v above. SO ₂ emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. [§2108.02.b. & e]	Record Review	Y	C	
V.A.2.c	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions testing and evaluations for NO _x on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify NO _x emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NO _x . Testing for NO _x shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.d	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.A.3.a	Monitoring		The permittee shall:	Administrative Requirement		C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.3.a.1	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	
V.A.3.a.2	Monitoring	§2103.12.h.6.; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.A.3.a.3	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.A.3.a.4	Monitoring	§2103.12.h.6.; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	
V.A.3.b	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.A.3.c below through V.A.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Record Review	Y	C	
V.A.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.A.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.A.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.A.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.A.3.b above.	Record Review	Y	C	
V.A.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at is option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Administrative Requirement	Y	C	
V.A.3.c	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements: [§2103.12.h.6.; §2103.12.i.; §63.309(c)]	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.A.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.A.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.A.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection.	Record Review	Y	C	
V.A.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.A.3.d	Monitoring	§2103.12.h.6; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.A.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.e	Monitoring	§2103.12.h.6; §2103.12.i; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.A.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.A.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.A.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.A.1.d above and V.A.1.e above:	Administrative Requirement	Y	C	
V.A.3.g.1	Monitoring		Compliance with the provisions in Condition V.A.1.i above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	
V.A.3.g.2	Monitoring		Compliance with the provisions in Condition V.A.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.3.h	Monitoring	§2103.12.h.6.; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.A.3.i	Monitoring	[§2103.12.h.6.; §2103.12.i; §63.7300(b)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.A.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.A.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.A.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.A.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.A.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.A.3.i.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.A.3.j	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in V.A.3.m below.	Process Knowledge, Physical Inspection and Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.3.k	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.	Record Review	Y	C	
V.A.3.l	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Record Review	Y	C	
V.A.3.m	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(i)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.A.3.m.1) through V.A.3.m.5)below:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.A.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60.	Record Review	Y	C	
V.A.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS.	Record Review	Y	C	
V.A.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Record Review	Y	C	
V.A.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.A.3.n	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.A.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.A.3.p	Monitoring	§2103.12.h.6; §2103.12.i; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.A.1.t.1) and V.A.1.t.2) above by meeting the requirements in Conditions V.A.3.p.1) and V.A.3.p.2) below:	Administrative Requirement	Y	C	
V.A.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.A.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.A.3.m above	Record Review	Y	C	
	Monitoring	CO&A	Observe 8 pushes per day and perform 4 soaking observations per day		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.4.a	Recording Keeping	§2103.12.h.6; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.A.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.A.4.a.1	Recording Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	
V.A.4.a.2	Recording Keeping		If the permittee is required under Condition V.A.6.b below to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point during the implementation of plan requirements for that emission point during the implementation period:	Administrative Requirement	Y	C	
V.A.4.a.2.a	Recording Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required under Condition IV.27.b.1) above;	Record Review	Y	C	
V.A.4.a.2.b	Recording Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Record Review	Y	C	
V.A.4.a.2.c	Recording Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Record Review	Y	C	
V.A.4.a.2.d	Recording Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) above; and	Record Review	Y	C	
V.A.4.a.3	Recording Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.A.1.a through V.A.1.e above.	Record Review	Y	C	
V.A.4.a.4	Recording Keeping		Records specified in Condition V.A.6.g below regarding the basis of each malfunction notification.	Record Review	Y	C	
V.A.4.b	Recording Keeping	§2103.12.j.; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	
V.A.4.b.1	Recording Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Record Review	Y	C	
V.A.4.b.2	Recording Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.4.b.3	Recording Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.A.4.c	Recording Keeping	§2103.12.j.; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.A.4.c.1	Recording Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.4.c.2	Recording Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.4.c.3	Recording Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).	Record Review	Y	C	
V.A.4.c.4	Recording Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.4.d	Recording Keeping	§2103.12.j.; §63.7342(e)	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Record Review	Y	C	
V.A.4.e	Recording Keeping	§2103.12.j.; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	
V.A.4.f	Recording Keeping	§2103.12.h.6; §63.7343(c)	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.A.4.g	Recording Keeping	§2103.12.j; §63.7335(a)	For each by-product coke oven battery, the permittee must demonstrate continuous compliance with the operation and maintenance requirements in V.A.3.i above by adhering at all times to the plan requirements and recording all information needed to document	Record Review	Y	C	
V.A.4.h	Recording Keeping	§2103.12.j; §63.7334(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in in V.A.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.A.4.i	Recording Keeping	§2103.12.j.; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.A.6.k below, by maintaining records that document conformance with requirements in V.A.6.k.1) through V.A.6.k.5) below.	Record Review	Y	C	
V.A.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.A.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.A.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.A.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.A.5.a.1.c	Reporting		Total coke oven gas produced; in MMCF;	Record Review	Y	C	
V.A.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.A.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.A.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.A.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.A.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.A.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.A.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.A.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.A.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.A.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.A.5.b	Reporting	§2103.12.k.; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	
V.A.5.b.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.A.5.c below.	Record Review	Y	C	
V.A.5.b.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.A.6.f below; and	Record Review	Y	C	
V.A.5.b.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.A.5.c	Reporting	§2103.12.k.; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6	Record Review	Y	C	
V.A.5.d	Reporting	§2103.12.k.; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Administrative Requirement	Y	C	
V.A.5.d.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	
V.A.5.d.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.A.5.e	Reporting	§2103.12.k.; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Administrative Requirement	Y	C	
V.A.5.e.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.A.5.e.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.5.f	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 1-3 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	

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				Method	Y/ N	Type C/I	
V.A.5.g	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.b	The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 1-3.	Record Review	Y	C	
V.A.5.h	Reporting	§2103.12.k; §63.7336(a)	The permittee shall report each instance in which each emission limitation in Conditions V.A.1.t and V.A.1.u was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.A.6.k, V.A.6.l and V.A.6.m. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.A.5.k through V.A.5.o below.	Record Review	Y	C	
V.A.5.i	Reporting	§2103.12.k.; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	
V.A.5.i.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.5.i.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Record Review	Y	C	
V.A.5.j	Reporting	§2103.12.k.; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	
V.A.5.k	Reporting	§2103.12.k.; §63.7341(a)	Unless the Department has approved a different schedule, the permittee must submit quarterly compliance reports for battery stacks according to the requirements in V.A.5.k.1) through V.A.5.k.2) below:	Administrative Requirement	Y	C	
V.A.5.k.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	
V.A.5.k.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.A.5.l	Reporting	§2103.12.k; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.A.1.t.1) above. The reports must include the information in Conditions V.A.5.m.1) through V.A.5.m.3) below, and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m	Reporting	§2103.12.k; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.A.5.m.1) through V.A.5.m.3), and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m.1	Reporting		Company name and address.	Record Review	Y	C	

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				Method	Y/ N	Type C/I	
V.A.5.m.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.A.5.m.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.A.5.m.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.A.5.m.5	Reporting		If there were no deviations from the continuous compliance requirements in V.A.3.p for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Record Review	Y	C	
V.A.5.m.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Record Review	Y	C	
V.A.5.m.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.A.5.m.4), V.A.5.m.7)a) and V.A.5.m.7)b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.5.m.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.A.5.m.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.A.5.m.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.A.5.m.4), V.A.5.m.8)a) through V.A.5.m.8)b) below. This includes periods of startup, shutdown, and malfunction.	Administrative Requirement	Y	C	
V.A.5.m.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.A.5.m.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.A.5.m.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.A.5.m.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.5.m.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.5.m.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.A.5.m.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.A.5.m.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.A.5.m.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.A.5.m.8.j	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.A.5.m.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	
V.A.5.m.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.A.5.n	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.A.5.o	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.A.6.a	Work Practice Standards	RACT Plan 234	Coke Oven Batteries 1, 2 and 3 shall be properly maintained and operated at all times according to good engineering and air pollution control practices .	Record Review	Y	C	
V.A.6.b	Work Practice Standards	§2103.12.h.6.; §63.306(a)	The permittee shall comply with the provisions of applicable work practice requirements in Site level Condition IV.27 above.	Record Review	Y	C	
V.A.6.c	Work Practice Standards	§2103.12.h.6.; §63.310(b)	The permittee shall develop and implement according to Condition V.A.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.6.d	Work Practice Standards	§2103.12.h.6.; §63.310(c)	During a period of startup, shutdown, or malfunction the permittee shall:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Process Knowledge & Record Review	Y	C	
V.A.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.A.6.e	Work Practice Standards	§2103.12.h.6.; §63.310(d)	In order for the provisions of Condition V.A.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee:	Administrative Requirement	Y	C	
V.A.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	
V.A.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.A.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.A.6.f	Work Practice Standards	§2103.12.h.6.; §63.310(e)	Within 14 days of the notification made under Condition V.A.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Record Review	Y	C	
V.A.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.A.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.6.g	Work Practice Standards	§2103.12.h.6.; §63.310(f)	The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.A.6.e above.	Record Review	Y	C	
V.A.6.h	Work Practice Standards	§2103.12.h.6.; §63.310(g)	To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department.	Administrative Requirement	Y	C	
V.A.6.i	Work Practice Standards	§2103.12.h.6.; §63.310(h)	The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan:	Administrative Requirement	Y	C	
V.A.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	
V.A.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.A.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.A.6.j	Work Practice Standards	§2103.12.h.6.; §63.310(i)	If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:	Administrative Requirement	Y	C	
V.A.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Administrative Requirement	Y	C	
V.A.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.A.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	
V.A.6.k	Work Practice Standards	§2103.12.h.6; §63.7294(a)	The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:	Administrative Requirement	Y	C	
V.A.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.A.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.A.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.A.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.A.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.A.6.l	Work Practice Standards	§2103.12.h.6; §63.7294(b)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.A.6.k above.	Administrative Requirement	Y	C	
V.A.6.m	Work Practice Standards	§2103.12.h.6; §63.7310(a)	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Physical Inspection & Record Review	Y	C	
V.A.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.1.a	Restrictions	2103.12.h.6; 63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.b	Restrictions	§2103.12.h.6.; §63.307(a)(2)	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system, or the alternative control device as described in V.A.1.c below.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system.	Administrative Requirement	Y	C	
V.A.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.A.1.e	Restrictions	§2103.12.h.6.; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.f	Restrictions	§2105.21.b.5	The permittee shall not operate, or allow to be operated, coke oven batteries 1, 2 or 3 unless there is installed big plug doors on the coke side of each oven. A big plug door is a door that, when installed, contains a plug with minimum dimensions of 18-1/4" minimum width and 14-1/2" minimum depth.	Process Knowledge & Physical Inspection	Y	C	The compliance certification contained in this submittal is based on the understanding that big plug doors meet the specified dimensions when initially installed except that portion of the plug located in the tunnel head above the design coal line. The plugs may experience inconsequential dimensional changes over time in the course of normal operation.
V.A.1.g	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	
V.A.1.h	Restrictions	§2105.21.h; §2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.i	Restrictions	§2103.12.h.6.; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.A.1.a through V.A.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	Direct Measurement & Record Review	Y	C	
V.A.1.j	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative Requirement	Y	C	
V.A.1.j.1	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	3.3 percent leaking coke oven doors as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.A.1.j.2	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	0.4 percent leaking topside port lids, as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	

V.A.1.j.3	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.A.3.d.1) below, and	Direct Measurement & Record Review	Y	C	
V.A.1.j.4	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	12 seconds of visible emissions per charge, as determined by the procedures in Condition V.A.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.A.1.k	Restrictions	§2103.12.h.6.; §63.306(c)(1)(f)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Record Review	Y	C	
V.A.1.l	Restrictions	§2105.21.a.2	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 75 seconds during any four (4) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C	
V.A.1.m	Restrictions	§2105.21	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.n	Restrictions	§2105.21.b.3.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than eight percent (8%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.A.1.o	Restrictions	§2105.21.c.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than two percent (2%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.A.1.p	Restrictions	§2105.21.d.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.A.1.q	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.r	Restrictions	§2105.21.f.2	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.030 grains per dry standard cubic foot.	Direct Measurement & Record Review	Y	C	
V.A.1.s	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative Requirement	Y	C	
V.A.1.t.1	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.A.1.t.2	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.A.1.u	Restrictions	§2103.12.h.6.; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	

V.A.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; §2103.12.e; §2101.11.b & c.	Emissions from each combustion stack for Coke Batteries No. 1, No. 2 or No. 3 shall not exceed the emission limitations in Table V-A-1.	Administrative Requirement	Y	C	
V.A.1.v.1	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.A.1.v.1	Restrictions		PM 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		PM-10 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		PM 2.5 14.47 63.38		Y	C	
V.A.1.v.1	Restrictions		SO2 31.8 139.46		Y	C	
V.A.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				
V.A.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM _{2.5} and PM ₁₀ particulate emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.A.1.r above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.A.2.b	Testing	§2108.02.b. & c.	The permittee shall have sulfur dioxide (SO ₂) emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.A.1.v above. SO ₂ emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. [§2108.02.b. & c.]	Record Review	Y	C	
V.A.2.c	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions testing and evaluations for NO _x on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify NO _x emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NO _x . Testing for NO _x shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.d	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.A.3.a	Monitoring		The permittee shall:	Administrative Requirement			
V.A.3.a.1	Monitoring	§2103.12.h.6; §2103.12.i; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	
V.A.3.a.2	Monitoring	§2103.12.h.6; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.A.3.a.3	Monitoring	§2103.12.h.6; §2103.12.i; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.A.3.a.4	Monitoring	§2103.12.h.6; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	

V.A.3.b	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.A.3.c below through V.A.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Record Review	Y	C	
V.A.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.A.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.A.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.A.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.A.3.b above.	Record Review	Y	C	
V.A.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Administrative Requirement	Y	C	
V.A.3.c	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements: [§2103.12.h.6.; §2103.12.i; §63.309(c)]	Administrative Requirement	Y	C	
V.A.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.A.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.A.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.A.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection.	Record Review	Y	C	
V.A.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.A.3.d	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.A.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.A.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	

V.A.3.e	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.A.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.A.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.A.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.A.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.A.1.d above and V.A.1.e above.	Administrative Requirement	Y	C	
V.A.3.g.1	Monitoring		Compliance with the provisions in Condition V.A.1.i above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	
V.A.3.g.2	Monitoring		Compliance with the provisions in Condition V.A.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.3.h	Monitoring	§2103.12.h.6.; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.A.3.i	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.A.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.A.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.A.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.A.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.A.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.A.3.i.6	Monitoring		Schedule and procedures for the daily washing of baffles.	Record Review	Y	C	
V.A.3.j	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in V.A.3.m below.	Process Knowledge, Physical Inspection and Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.3.k	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.	Record Review	Y	C	
V.A.3.l	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Record Review	Y	C	
V.A.3.m	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7331(i)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.A.3.m.1) through V.A.3.m.5)below:	Administrative Requirement	Y	C	
V.A.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.A.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60.	Record Review	Y	C	
V.A.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS.	Record Review	Y	C	

V.A.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(e)(2).	Record Review	Y	C	
V.A.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.A.3.n	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.A.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.A.3.p	Monitoring	§2103.12.h.6.; §2103.12.i.; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.A.1.t.1) and V.A.1.t.2) above by meeting the requirements in Conditions V.A.3.p.1) and V.A.3.p.2) below.	Administrative Requirement	Y	C	
V.A.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.A.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.A.3.m above	Record Review	Y	C	
	Monitoring	CO&A	Observe 8 pushes per day and perform 4 soaking observations per day		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.4.a	Recording Keeping	§2103.12.h.6.; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.A.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.A.4.a.1	Recording Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan.	Record Review	Y	C	
V.A.4.a.2	Recording Keeping		If the permittee is required under Condition V.A.6.b below to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point during the implementation period:	Administrative Requirement	Y	C	
V.A.4.a.2.a	Recording Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required under Condition IV.27.b.1) above.	Record Review	Y	C	
V.A.4.a.2.b	Recording Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above.	Record Review	Y	C	
V.A.4.a.2.c	Recording Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Record Review	Y	C	
V.A.4.a.2.d	Recording Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jams as required under Condition IV.27.b.2)f) above; and	Record Review	Y	C	
V.A.4.a.3	Recording Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.A.1.a through V.A.1.e above.	Record Review	Y	C	
V.A.4.a.4	Recording Keeping		Records specified in Condition V.A.6.g below regarding the basis of each malfunction notification.	Record Review	Y	C	
V.A.4.b	Recording Keeping	§2103.12.j.; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	

V.A.4.b.1	Recording Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Record Review	Y	C	
V.A.4.b.2	Recording Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.4.b.3	Recording Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.A.4.c	Recording Keeping	§2103.12.j; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.A.4.c.1	Recording Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.4.c.2	Recording Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C	
V.A.4.c.3	Recording Keeping		Previous (that is, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).	Record Review	Y	C	
V.A.4.c.4	Recording Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.4.d	Recording Keeping	§2103.12.j; §63.7342(e)	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Record Review	Y	C	
V.A.4.e	Recording Keeping	§2103.12.j; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	
V.A.4.f	Recording Keeping	§2103.12.h.6; §63.7343(c)	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.A.4.g	Recording Keeping	§2103.12.j; §63.7335(a)	For each by-product coke oven battery, the permittee must demonstrate continuous compliance with the operation and maintenance requirements in V.A.3.i above by adhering at all times to the plan requirements and recording all information needed to document.	Record Review	Y	C	
V.A.4.h	Recording Keeping	§2103.12.j; §63.7334(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in V.A.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.A.4.i	Recording Keeping	§2103.12.j; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.A.6.k below, by maintaining records that document conformance with requirements in V.A.6.k.1) through V.A.6.k.5) below.	Record Review	Y	C	
V.A.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.A.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.A.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.A.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.A.5.a.1.c	Reporting		Total coke oven gas produced, in MMCF;	Record Review	Y	C	
V.A.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.A.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.A.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.A.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.A.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.A.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.A.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.A.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour.	Record Review	Y	C	
V.A.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	
V.A.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.A.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.A.5.b	Reporting	§2103.12.k; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	

V.A.5.b.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.A.5.c below.	Record Review	Y	C	
V.A.5.b.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.A.6.f below; and	Record Review	Y	C	
V.A.5.b.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.A.5.c	Reporting	§2103.12.k.; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6.	Record Review	Y	C	
V.A.5.d	Reporting	§2103.12.k.; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Administrative Requirement	Y	C	
V.A.5.d.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	
V.A.5.d.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.A.5.e	Reporting	§2103.12.k.; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Administrative Requirement	Y	C	
V.A.5.e.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.A.5.e.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.5.f	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 1-3 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	
V.A.5.g	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.b	The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 1-3.	Record Review	Y	C	
V.A.5.h	Reporting	§2103.12.k.; §63.7336(a)	The permittee shall report each instance in which each emission limitation in Conditions V.A.1.t and V.A.1.u was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.A.6.k, V.A.6.l and V.A.6.m. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.A.5.k through V.A.5.n below.	Record Review	Y	C	
V.A.5.i	Reporting	§2103.12.k.; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	
V.A.5.i.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.5.i.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Record Review	Y	C	
V.A.5.j	Reporting	§2103.12.k.; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	
V.A.5.k	Reporting	§2103.12.k.; §63.7341(a)	Unless the Department has approved a different schedule, the permittee must submit quarterly compliance reports for battery stacks according to the requirements in V.A.5.k.1) through V.A.5.k.2) below:	Administrative Requirement	Y	C	
V.A.5.k.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	

V.A.5.k.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.A.5.l	Reporting	§2103.12.k; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.A.1.t.1) above. The reports must include the information in Conditions V.A.5.m.1) through V.A.5.m.3) below, and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m	Reporting	§2103.12.k; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.A.5.m.1) through V.A.5.m.3), and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m.1	Reporting		Company name and address.	Record Review	Y	C	
V.A.5.m.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.A.5.m.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.A.5.m.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.A.5.m.5	Reporting		If there were no deviations from the continuous compliance requirements in V.A.3.p for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Record Review	Y	C	
V.A.5.m.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Record Review	Y	C	
V.A.5.m.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.A.5.m.4), V.A.5.m.7a) and V.A.5.m.7b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.5.m.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.A.5.m.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.A.5.m.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.A.5.m.4), V.A.5.m.8a) through V.A.5.m.8b) below. This includes periods of startup, shutdown, and malfunction.	Administrative Requirement	Y	C	
V.A.5.m.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.A.5.m.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.A.5.m.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.A.5.m.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.5.m.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.A.5.m.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.A.5.m.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.A.5.m.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	

V.A.5.m.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.A.5.m.8.i	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.A.5.m.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	
V.A.5.m.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.A.5.n	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.A.5.o	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.A.6.a	Work Practice Standards	RACT Plan 234	Coke Oven Batteries 1, 2 and 3 shall be properly maintained and operated at all times according to good engineering and air pollution control practices .	Record Review	Y	C	
V.A.6.b	Work Practice Standards	§2103.12.h.6.; §63.306(a)	The permittee shall comply with the provisions of applicable work practice requirements in Site Level Condition IV.27 above.	Record Review	Y	C	
V.A.6.c	Work Practice Standards	§2103.12.h.6.; §63.310(b)	The permittee shall develop and implement according to Condition V.A.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.6.d	Work Practice Standards	§2103.12.h.6.; §63.310(c)	During a period of startup, shutdown, or malfunction the permittee shall:	Administrative Requirement	Y	C	
V.A.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Process Knowledge & Record Review	Y	C	
V.A.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.A.6.e	Work Practice Standards	§2103.12.h.6.; §63.310(d)	In order for the provisions of Condition V.A.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee:	Administrative Requirement	Y	C	
V.A.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	
V.A.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.A.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.A.6.f	Work Practice Standards	§2103.12.h.6.; §63.310(e)	Within 14 days of the notification made under Condition V.A.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Record Review	Y	C	
V.A.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.A.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.6.g	Work Practice Standards	§2103.12.h.6.; §63.310(f)	The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.A.6.e above.	Record Review	Y	C	
V.A.6.h	Work Practice Standards	§2103.12.h.6.; §63.310(g)	To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department.	Administrative Requirement	Y	C	
V.A.6.i	Work Practice Standards	§2103.12.h.6.; §63.310(h)	The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan:	Administrative Requirement	Y	C	
V.A.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	

V.A.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.A.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.A.6.j	Work Practice Standards	§2103.12.h.6; §63.310(i)	If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:	Administrative Requirement	Y	C	
V.A.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Administrative Requirement	Y	C	
V.A.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Administrative Requirement	Y	C	
V.A.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	
V.A.6.k	Work Practice Standards	§2103.12.h.6; §63.7294(a)	The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:	Administrative Requirement	Y	C	
V.A.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.A.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.A.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.A.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.A.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.A.6.l	Work Practice Standards	§2103.12.h.6; §63.7294(b)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.A.6.k above.	Administrative Requirement	Y	C	
V.A.6.m	Work Practice Standards	§2103.12.h.6; §63.7310(a)	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Physical Inspection & Record Review	Y	C	
V.A.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.A.1.a	Restrictions	2103.12.h.6; §63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.b	Restrictions	§2103.12.h.6; §63.307(a)(2)	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system, or the alternative control device as described in V.A.1.c below.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system.	Administrative Requirement	Y	C	
V.A.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.A.1.e	Restrictions	§2103.12.h.6; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.1.f	Restrictions	§2105.21.b.5	The permittee shall not operate, or allow to be operated, coke oven batteries 1, 2 or 3 unless there is installed big plug doors on the coke side of each oven. A big plug door is a door that, when installed, contains a plug with minimum dimensions of 18-1/4" minimum width and 14-1/2" minimum depth.	Process Knowledge & Physical Inspection	Y	C*	The compliance certification contained in this submittal is based on the understanding that big plug doors meet the specified dimensions when initially installed except that portion of the plug located in the tunnel head above the design coal line. The plugs may experience inconsequential dimensional changes over time in the course of normal operation.
V.A.1.g	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	
V.A.1.h	Restrictions	§2105.21.h; §2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.i	Restrictions	§2103.12.h.6; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.A.1.a through V.A.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	Direct Measurement & Record Review	Y	C	
V.A.1.j	Restrictions	§2103.12.h.6; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative Requirement	Y	C	
V.A.1.j.1	Restrictions	§2103.12.h.6; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	3.3 percent leaking coke oven doors as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.A.1.j.2	Restrictions	§2103.12.h.6; §63.304(b)(2)(ii)(iv); §63.304(b)(3)(ii)	0.4 percent leaking topside port lids, as determined by the procedures in Condition V.A.3.d.1) below;	Direct Measurement & Record Review	Y	C	

V.A.1.ij3	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.A.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.A.1.j4	Restrictions	§2103.12.h.6.; §63.304(b)(2)(ii) (iv); §63.304(b)(3)(ii)	12 seconds of visible emissions per charge, as determined by the procedures in Condition V.A.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.A.1.k	Restrictions	§2103.12.h.6.; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Record Review	Y	C	
V.A.1.l	Restrictions	§2105.21.a.2	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 75 seconds during any four (4) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.m	Restrictions	§2105.21	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Report as previously provided to the Department on July 31, 2013 and January 31, 2014.
V.A.1.n	Restrictions	§2105.21.b.3.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than eight percent (8%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.A.1.o	Restrictions	§2105.21.c.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than two percent (2%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.A.1.p	Restrictions	§2105.21.d.2	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.q	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 1, 2 or 3 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.r	Restrictions	§2105.21.f.2	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.030 grains per dry standard cubic foot.	Direct Measurement & Record Review	Y	C	
V.A.1.s	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 1, 2 or 3 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative Requirement	Y	C	
V.A.1.t.1	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.A.1.t.2	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.A.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	

V.A.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; §2103.12.e; §2101.11.b & c	Emissions from each combustion stack for Coke Batteries No. 1, No. 2 or No. 3 shall not exceed the emission limitations in Table V-A-1.	Administrative Requirement	Y	C	
V.A.1.v.1	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.A.1.v.1	Restrictions		PM	14.47	63.38	Y	C
V.A.1.v.1	Restrictions		PM-10	14.47	63.38	Y	C
V.A.1.v.1	Restrictions		PM 2.5	14.47	63.38	Y	C
V.A.1.v.1	Restrictions		SO2	31.8	139.46	Y	C
V.A.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				
V.A.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM _{2.5} and PM ₁₀ particulate emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.A.1.r above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.A.2.b	Testing	§2108.02.b. & c	The permittee shall have sulfur dioxide (SO ₂) emissions stack tests performed on each combustion stack of Coke Batteries 1, 2 and 3 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.A.1.v above. SO ₂ emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. [§2108.02.b. & c]	Record Review	Y	C	
V.A.2.c	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions testing and evaluations for NO _x on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify NO _x emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NO _x . Testing for NO _x shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.d	Testing	§2103.12.h.1; §2108.02.b; §2108.02.e	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 1, 2 and 3 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.A.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.A.3.a	Monitoring		The permittee shall:	Administrative Requirement			
V.A.3.a.1	Monitoring	§2103.12.h.6; §2103.12.i; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	
V.A.3.a.2	Monitoring	§2103.12.h.6; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.A.3.a.3	Monitoring	§2103.12.h.6; §2103.12.i; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.A.3.a.4	Monitoring	§2103.12.h.6; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	

V.A.3.b	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.A.3.e below through V.A.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Record Review	Y	C	
V.A.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.A.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.A.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.A.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.A.3.b above.	Record Review	Y	C	
V.A.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Administrative Requirement	Y	C	
V.A.3.c	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements: [§2103.12.h.6.; §2103.12.i.; §63.309(c)]	Administrative Requirement	Y	C	
V.A.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.A.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.A.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.A.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection.	Record Review	Y	C	
V.A.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.A.3.d	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.A.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.A.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	

V.A.3.e	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.A.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.A.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.A.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.A.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.A.1.d above and V.A.1.e above:	Administrative Requirement	Y	C	
V.A.3.g.1	Monitoring		Compliance with the provisions in Condition V.A.1.i above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	
V.A.3.g.2	Monitoring		Compliance with the provisions in Condition V.A.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.A.3.h	Monitoring	§2103.12.h.6.; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.A.3.i	Monitoring	[§2103.12.h.6.; §2103.12.i; §63.7300(b)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.A.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.A.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.A.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.A.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.A.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.A.3.i.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.A.3.j	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in V.A.3.m below.	Process Knowledge, Physical Inspection and Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.3.k	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.	Record Review	Y	C	
V.A.3.l	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Process Knowledge	Y	C	
V.A.3.m	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(i)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.A.3.m.1) through V.A.3.m.5) below:	Administrative Requirement	Y	C	
V.A.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.A.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60.	Record Review	Y	C	
V.A.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS:	Record Review	Y	C	

V.A.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(e)(2).	Record Review	Y	C	
V.A.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.A.3.n	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.A.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring, malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.A.3.p	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.A.1.t.1) and V.A.1.t.2) above by meeting the requirements in Conditions V.A.3.p.1) and V.A.3.p.2) below.	Administrative Requirement	Y	C	
V.A.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.A.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.A.3.m above	Record Review	Y	C	
	Monitoring	CO&A	Observe 8 pushes per day and perform 4 soaking observations per day		Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.4.a	Recording Keeping	§2103.12.h.6.; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.A.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.A.4.a.1	Recording Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	
V.A.4.a.2	Recording Keeping		If the permittee is required under Condition V.A.6.b below to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point during the implementation of plan requirements for that emission point during the implementation period;	Administrative Requirement	Y	C	
V.A.4.a.2.a	Recording Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required under Condition IV.27.b.1) above;	Record Review	Y	C	
V.A.4.a.2.b	Recording Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Record Review	Y	C	
V.A.4.a.2.c	Recording Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions IV.27.b.2(a), IV.27.b.3(a), IV.27.b.4(a) or IV.27.b.5(a) above; and	Record Review	Y	C	
V.A.4.a.2.d	Recording Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jams as required under Condition IV.27.b.2(f) above; and	Record Review	Y	C	
V.A.4.a.3	Recording Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.A.1.a through V.A.1.e above.	Record Review	Y	C	
V.A.4.a.4	Recording Keeping		Records specified in Condition V.A.6.g below regarding the basis of each malfunction notification.	Record Review	Y	C	
V.A.4.b	Recording Keeping	§2103.12.j; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	

V.A.4.b.1	Recording Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Record Review	Y	C	
V.A.4.b.2	Recording Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.4.b.3	Recording Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.A.4.c	Recording Keeping	§2103.12.j.; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.A.4.c.1	Recording Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.A.4.c.2	Recording Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C	
V.A.4.c.3	Recording Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).	Record Review	Y	C	
V.A.4.c.4	Recording Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.4.d	Recording Keeping	§2103.12.j.; §63.7342(e)	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Record Review	Y	C	
V.A.4.e	Recording Keeping	§2103.12.j.; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	
V.A.4.f	Recording Keeping	§2103.12.h.6; §63.7343(c)	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.A.4.g	Recording Keeping	§2103.12.j.; §63.7335(a)	For each by-product coke oven battery, the permittee must demonstrate continuous compliance with the operation and maintenance requirements in V.A.3.i above by adhering at all times to the plan requirements and recording all information needed to document	Record Review	Y	C	
V.A.4.h	Recording Keeping	§2103.12.j.; §63.7334(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in in V.A.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.A.4.i	Recording Keeping	§2103.12.j.; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.A.6.k below, by maintaining records that document conformance with requirements in V.A.6.k.1) through V.A.6.k.5) below.	Record Review	Y	C	
V.A.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.A.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.A.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.A.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.A.5.a.1.c	Reporting		Total coke oven gas produced, in MMCF;	Record Review	Y	C	
V.A.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.A.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.A.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.A.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.A.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.A.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.A.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.A.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.A.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	
V.A.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.A.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	

V.A.5.b	Reporting	§2103.12.k.; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification: Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.A.5.c below.	Administrative Requirement	Y	C	
V.A.5.b.1	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.A.6.f below; and	Record Review	Y	C	
V.A.5.b.2	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.A.5.b.3	Reporting		The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6	Record Review	Y	C	
V.A.5.c	Reporting	§2103.12.k.; §63.311(e)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows: If practicable, to the certified observer if the observer is at the facility during the occurrence; or To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Administrative Requirement	Y	C	
V.A.5.d	Reporting	§2103.12.k.; §63.310(d)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that: Describes the time and circumstances of the startup, shutdown, or malfunction; and Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.5.d.1	Reporting		The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 1-3 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Administrative Requirement	Y	C	
V.A.5.d.2	Reporting		The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 1-3.	Record Review	Y	C	
V.A.5.e	Reporting	§2103.12.k.; §63.310(e)	The permittee shall report each instance in which each emission limitation in Conditions V.A.1.t and V.A.1.u was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.A.6.k, V.A.6.l and V.A.6.m. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.A.5.k through V.A.5.o below.	Administrative Requirement	Y	C	
V.A.5.e.1	Reporting		During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.5.e.2	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.5.f	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.a.1	The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Record Review	Y	C	
V.A.5.g	Reporting	§2103.12.k.; Enforcement Order, Signed March 17, 2008, Condition V.b	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	
V.A.5.h	Reporting	§2103.12.k.; §63.7336(a)	Unless the Department has approved a different schedule, the permittee must submit quarterly compliance reports for battery stacks according to the requirements in V.A.5.k.1) through V.A.5.k.2) below:	Administrative Requirement	Y	C	

V.A.5.k.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	
V.A.5.k.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.A.5.l	Reporting	§2103.12.k; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.A.1.t.1) above. The reports must include the information in Conditions V.A.5.m.1) through V.A.5.m.3) below, and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m	Reporting	§2103.12.k; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.A.5.m.1) through V.A.5.m.3), and as applicable, Conditions V.A.5.m.4) through V.A.5.m.8) below.	Record Review	Y	C	
V.A.5.m.1	Reporting		Company name and address.	Record Review	Y	C	
V.A.5.m.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.A.5.m.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.A.5.m.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(ii).	Record Review	Y	C	
V.A.5.m.5	Reporting		If there were no deviations from the continuous compliance requirements in V.A.3.p for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Record Review	Y	C	
V.A.5.m.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Record Review	Y	C	
V.A.5.m.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.A.5.m.4), V.A.5.m.7)a) and V.A.5.m.7)b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.A.5.m.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.A.5.m.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.A.5.m.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.A.5.m.4), V.A.5.m.8)a) through V.A.5.m.8)b) below. This includes periods of startup, shutdown, and malfunction.	Administrative Requirement	Y	C	
V.A.5.m.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.A.5.m.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.A.5.m.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.A.5.m.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.A.5.m.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.A.5.m.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.A.5.m.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	

V.A.5.m.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.A.5.m.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.A.5.m.8.j	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.A.5.m.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	
V.A.5.m.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.A.5.n	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(i).	Record Review	Y	C	
V.A.5.o	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.A.6.a	Work Practice Standards	RACT Plan 234	Coke Oven Batteries 1, 2 and 3 shall be properly maintained and operated at all times according to good engineering and air pollution control practices.	Record Review	Y	C	
V.A.6.b	Work Practice Standards	§2103.12.h.6.; §63.306(a)	The permittee shall comply with the provisions of applicable work practice requirements in Site Level Condition IV.27 above.	Record Review	Y	C	
V.A.6.c	Work Practice Standards	§2103.12.h.6.; §63.310(b)	The permittee shall develop and implement according to Condition V.A.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.A.6.d	Work Practice Standards	§2103.12.h.6.; §63.310(c)	During a period of startup, shutdown, or malfunction the permittee shall:	Administrative Requirement	Y	C	
V.A.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Process Knowledge & Record Review	Y	C	
V.A.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.A.6.e	Work Practice Standards	§2103.12.h.6.; §63.310(d)	In order for the provisions of Condition V.A.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee:	Administrative Requirement	Y	C	
V.A.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	
V.A.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.A.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.A.6.f	Work Practice Standards	§2103.12.h.6.; §63.310(e)	Within 14 days of the notification made under Condition V.A.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Record Review	Y	C	
V.A.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.A.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.A.6.g	Work Practice Standards	§2103.12.h.6.; §63.310(f)	The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.A.6.e above.	Record Review	Y	C	
V.A.6.h	Work Practice Standards	§2103.12.h.6.; §63.310(g)	To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department.	Administrative Requirement	Y	C	
V.A.6.i	Work Practice Standards	§2103.12.h.6.; §63.310(h)	The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan:	Administrative Requirement	Y	C	
V.A.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	

V.A.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.A.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.A.6.j	Work Practice Standards	§2103.12.h.6; §63.310(f)	If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:	Administrative Requirement	Y	C	
V.A.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Administrative Requirement	Y	C	
V.A.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Administrative Requirement	Y	C	
V.A.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	
V.A.6.k	Work Practice Standards	§2103.12.h.6; §63.7294(a)	The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:	Administrative Requirement	Y	C	
V.A.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.A.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.A.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.A.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.A.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.A.6.l	Work Practice Standards	§2103.12.h.6; §63.7294(b)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.A.6.k above.	Administrative Requirement	Y	C	
V.A.6.m	Work Practice Standards	§2103.12.h.6; §63.7310(a)	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Physical Inspection & Record Review	Y	C	
V.A.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.1.a	Restrictions	[§2105.21.e, Installation Permit 0052-1006]	The permittee shall not operate, or allow to be operated, Battery 1 or Battery 2 or Battery 3 coke ovens unless there is installed a pushing emission control system baghouse which is designed to reduce fugitive emissions from pushing to the minimum attainable through the use of BACT, nor shall the permittee operate, or allow to be operated Battery 1 or Battery 2 or Battery 3 coke ovens in such manner that:	Engineering Judgement	Y	C	
V.B.1.a.1	Restrictions	(§2105.21.e.2.A, B, and C, Installation Permit 0052-1006)	At any time, the particulate mass emission rate from the pushing emission control system device, for Batteries 1, 2, & 3 exceeds a rate determined by an outlet concentration of 0.010 grains per dry standard cubic foot:	Direct Measurement/ Records Review	Y	C	
V.B.1.a.2	Restrictions	[§2105.21.e.4., Installation Permit 0052-1006]	Fugitive pushing emissions or emissions from the pushing emission control system device outlet equal or exceed an opacity of 20% at any time, except if the Department determines in writing, upon written application from the person responsible for the coke ovens setting forth all information needed to make such determination, that such emissions are of only minor significance with respect to causing air pollution and do not prevent or interfere with the attainment or maintenance of any ambient air quality standard (any such determination shall be submitted as a proposed revision to Allegheny County's portion of the SIP).	Physical Inspection/ Procedures	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.1.b	Restrictions	[§2105.21.e.6]	The permittee shall not operate, or allow to be operated at any time, coke oven batteries in such manner that the hot coke fails to be held under the hood of the pushing emission control device for at least 67 seconds immediately after the pusher ram begins to move and the damper to the PEC device is opened or for at least 15 seconds immediately following the fall of the last of the coke into the hot car, whichever is longer. This provision shall only be effective during the period from 30 days following the issuance of written notice by the Department to the permittee of such battery that EPA has required the implementation of the contingency measures under the portion of the PM-10 SIP for the Liberty Borough/Clairton area, until issuance of a written notice by the Department that such measures are no longer required.	Process Knowledge/ Records Review	Y	C	
V.B.1.c	Restrictions	[§2105.03, Installation Permit 0052-1006]	The permittee shall not operate, or allow to be operated Battery 1 or Battery 2 or Battery 3, unless the Battery 1, 2, & 3 PEC System baghouse is properly installed, operated and maintained according to the following conditions, at all times:	Engineering Judgement	Y	C	
V.B.1.c.1	Restrictions		Emissions due to the pushing of Battery 1, 2, & 3 coke ovens shall be vented through the PEC System baghouse dust collector.	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.1.c.2	Restrictions		The baghouse shall be equipped with automatic cleaning controls and instrumentation that shall continuously measure the differential pressure drop across the baghouse to within 5.0% of the measuring span of the device.	Engineering Judgement	Y	C	
V.B.1.c.3	Restrictions		The normal operating differential pressure drop range across each baghouse module shall be maintained below 10 inches w.c. averaged over the push.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.1.c.4	Restrictions		When the pressure drop goes beyond the range specified in Condition V.B.1.c.3) above, cleaning, maintenance and other corrective actions shall be conducted, as necessary, to return the pressure drop to the specified range.	Process Knowledge	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.1.d	Restrictions	[§2103.12.h.6; §63.7290(a)]	The permittee shall not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from batteries 1, 2 or 3 that exceeds 0.02 pound per ton (lb/ton) of coke.	Direct Measurement/ Records Review	Y	C	
V.B.1.e	Restrictions	[§2103.12.h.6; §63.7290(b)(3)]	For each PEC System the permittee shall:	Administrative Requirement	Y	C	
V.B.1.e.1	Restrictions		Maintain the minimum daily average fan motor amperes of 207 or above the minimum level established during the most recent performance test; or	Process Knowledge/ Records Review	Y	C	
V.B.1.e.2	Restrictions		Maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test.	Process Knowledge/ Records Review	NA	NA	condition not applicable
V.B.1.f	Restrictions	[§2103.12.h.6; §63.7333 (a)]	For each control device applied to pushing emissions and subject to the emission limit in V.B.1.d above, the permittee shall demonstrate continuous compliance by meeting the requirements in Conditions V.B.f.(1) and (2) below:	Engineering Judgement	Y	C	
V.B.1.f.1	Restrictions		Maintaining emissions of particulate matter at or below 0.02 pound per ton (lb/ton) of coke; and	Direct Measurement/ Records Review	Y	C	
V.B.1.f.2	Restrictions		Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than once every two years.	Records Review	Y	C	
V.B.1.g	Restrictions	[§2105.03 and Installation Permit 0052-I006]	Emissions from the Battery 1, 2, & 3 PEC System baghouse shall not exceed the limits listed in Table V-B-1 at any time:	Direct Measurement/E mission Calcs	Y	C	
V.B.1.g	Restrictions		POLLUTANT GR/DSCF HOURLY LIMIT(lb/hr) ANNUAL LIMIT(ton/yr)		Y	C	
V.B.1.g	Restrictions		PM 0.010 1.98 8.68		Y	C	
V.B.1.g	Restrictions		PM-10 0.010 1.98 8.68		Y	C	
V.B.1.g	Restrictions		A year is defined as any consecutive 12-month period.		Y	C	
V.B.2.a	Testing	[§2108.02, §2103.12.h.6; IP-0052-I006 & §63.7321]	The permittee shall have baghouse emission stack tests conducted for PM, PM10 and PM2.5 at least once every two years using EPA Methods No.1 through No.5, 201A and 202 (or other method specified) and performed according to Site Level Condition IV.13 and Article XXI §2108.02.	Records Review	Y	C	
V.B.2.b	Testing	[§2108.02, Installation Permit 0052-I006]	Visible emissions observations of the baghouse stack exhaust and fugitive pushing emissions shall be conducted at least once every two years, as specified in Section 109 of the Department's source testing manual, and be done simultaneously with the baghouse stack tests.	Records Review	Y	C	
V.B.2.c	Testing	[§2103.12.h.6; §63.7322(a)]	The permittee shall conduct each performance test according to the requirements in Condition V.B.2.d below.	Records Review	Y	C	
V.B.2.d	Testing	[§2103.12.h.6; §63.7322(b)]	To determine compliance with the process weighted mass rate of particulate matter (lb/ton of coke) in Condition V.B.1.d above, use the following test methods and procedures:	Engineering Judgement	Y	C	
V.B.2.d.1	Testing	[§2103.12.h.6; §63.7322(b)(1)]	Determine the concentration of particulate matter according to the following test methods in Appendix A to 40 CFR Part 60.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.2.d.1.a	Testing		Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at the outlet of the control device and prior to any releases to the atmosphere.	Records Review	Y	C	
V.B.2.d.1.b	Testing		Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.	Records Review	Y	C	
V.B.2.d.1.c	Testing		Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.	Records Review	Y	C	
V.B.2.d.1.d	Testing		Method 4 to determine the moisture content of the stack gas.	Records Review	Y	C	
V.B.2.d.1.e	Testing		Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.	Records Review	Y	C	
V.B.2.d.2	Testing	[§2103.12.h.6; §63.7322(b)(2)]	During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 50 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (i.e., sample for an integral number of pushes).	Records Review	Y	C	
V.B.2.d.3	Testing	[§2103.12.h.6; §63.7322(b)(3)]	Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.	Records Review	Y	C	
V.B.2.d.4	Testing	[§2103.12.h.6; §63.7322(b)(4)]	<p>Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows:</p> $E_p = \frac{C \times Q \times T}{P \times K}$ <p>Where:</p> <p>E_p = Process weighted mass emissions of particulate matter, lb/ton;</p> <p>C = Concentration of particulate matter, gr/dscf;</p> <p>Q = Volumetric flow rate of stack gas, dscf/hr;</p> <p>T = Total time during a run that a sample is withdrawn from the stack during pushing, hr;</p> <p>P = Total amount of coke pushed during the test run, tons; and</p> <p>K = Conversion factor, 7,000 gr/lb.</p>	Records Review	Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	
V.B.2.e	Testing	[§2103.12.h.6; §63.7323(c)]	For each capture system applied to pushing emissions, the permittee shall establish a site-specific operating limit for the fan motor amperes or volumetric flow rate according to the procedures in Condition V.B.2.e.1) or V.B.2.e.2) below:	Engineering Judgement	Y	C	
V.B.2.e.1	Testing		If you elect the operating limit in V.B.1.e.1) above for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.B.2.e.2	Testing		If you elect the operating limit in V.B.1.e.2) above for volumetric flow rate, measure and record the total volumetric flow rate at the inlet of the control device during each push sampled for each particulate matter test run. Your operating limit is the lowest volumetric flow rate recorded during any of the three runs that meet the emission limit.	Records Review	NA	NA	
V.B.2.f	Testing	[§2103.12.h.6; §63.7323(e)]	The permittee may change the operating limit for a capture system if you meet the requirements in Conditions V.B.2.f.(1) through V.B.2.f.3) below:	Engineering Judgement	Y	C	
V.B.2.f.1	Testing		Submit a written notification to the Department of your request to conduct a new performance test to revise the operating limit.	Report Submission	Y	C	
V.B.2.f.2	Testing		Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).	Records Review	Y	C	
V.B.2.f.3	Testing		Establish revised operating limits according to the applicable procedures in Condition V.B.2.e above.	Records Review	Y	C	
V.B.2.g	Testing	(§2103.12.h.1)	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.B.3.a	Monitoring	[§2103.12.h.1, §2103.12.i and Installation Permit 0052-	The permittee shall continuously monitor the differential pressure drop across each baghouse module.	Direct Measurement	Y	C	
V.B.3.b	Monitoring	[□2102.04.e. and Installation Permit 0052-I006]	The permittee shall inspect the PEC System baghouse for Batteries 1, 2 and 3, weekly, to insure compliance with Condition V.B.1.c above.	Records Review	Y	C	
V.B.3.c	Monitoring	[63.7291(a)]	The permittee shall meet each of the following requirements in paragraphs V.B.3.c.1) through V.B.3.c.6)c) for each coke oven battery.	Administrative Requirement	Y	C	
V.B.3.c.1	Monitoring		Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).	Physical Inspection /Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.3.c.2	Monitoring		Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day	Physical Inspection/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.3.c.3	Monitoring		Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day. Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.B.3.c.4	Monitoring		<p>If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater:</p> $X = 0.55 * Y \text{ (Eq. 1)}$ <p>Where:</p> <p>X = Number of calendar days allowed to complete corrective action or increase coking time; and</p> <p>Y = Current coking time for the oven, hours.</p> <p>For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.</p>	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.3.c.5	Monitoring		The permittee shall demonstrate that:	Administrative Requirement	Y	C	
V.B.3.c.5.a	Monitoring		The corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph V.B.3.c.4) above, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph V.B.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in paragraph V.B.3.c.4) above.	Physical Inspection/ Records Review	Y	C	
V.B.3.c.5.b	Monitoring		After implementing any additional corrective action and/or increased coking time required under paragraph V.B.3.c.5)a) above or V.B.3.c.6)b) below, you must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph V.B.3.c.4) above, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in V.B.3.q or §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph V.B.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must follow the procedures in paragraph V.B.3.c.5)c) below.	Physical Inspection/ Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.B.3.c.5.c	Monitoring		If the corrective action and/or increased coking time was unsuccessful as described in paragraph V.B.3.c.5)b) above, the permittee must repeat the procedures in paragraph V.B.3.c.5)b) above until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under paragraph V.B.3.c.5)b) above.	Records Review	Y	C	
V.B.3.c.6	Monitoring		If at any time the permittee places an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using one of the following procedures:	Physical Inspection/ Records Review	Y	C	
V.B.3.c.6.a	Monitoring		To qualify for a decreased coking time for an oven placed on increased coking time in accordance with paragraph V.B.3.c.4) or V.B.3.c.5) above, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in paragraph V.B.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time.	Physical Inspection/ Records Review	Y	C	
			If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph V.B.3.c.5)b) above to confirm that the corrective action(s) and/or increased coking time was successful.	Physical Inspection/ Records Review	Y	C	
V.B.3.c.6.b	Monitoring		If the attempt to qualify for decreased coking time was unsuccessful as described in paragraph V.B.3.c.6)a) above, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in paragraph V.B.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time.	Physical Inspection/ Records Review	Y	C	
			If you implement other corrective action and/or a coking time that is shorter than the previously established increased coking time, you must follow the procedures in paragraph V.B.3.c.5)b) above to confirm that the corrective action(s) and/or increased coking time was successful.	Physical Inspection/ Records Review	Y	C	
V.B.3.c.6.c	Monitoring		The permittee must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in paragraph V.B.3.c.6)b) above	Administrative Requirement	Y	C	
V.B.3.d	Monitoring	[§2103.12.h.6; §63.7291(b)]	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standards in Condition V.B.3.c above.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.3.e	Monitoring	[§2103.12.h.6; §63.7300(c)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from coke battery(s). Each plan must address at a minimum the following elements.	Administrative Requirement	Y	C	
V.B.3.e.1	Monitoring		Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered.	Physical Inspection/ Records Review	Y	C	
			The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the approval process.	Physical Inspection/ Records Review	Y	C	
V.B.3.e.2	Monitoring		Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.	Records Review	Y	C	
V.B.3.e.3	Monitoring		Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions may include, but are not limited to:	Process Knowledge	Y	C	
V.B.3.e.3.a	Monitoring		Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.	Physical Inspection/ Procedures	Y	C	
V.B.3.e.3.b	Monitoring		Sealing off defective bags or filter media.	Process Knowledge	Y	C	
V.B.3.e.3.c	Monitoring		Replacing defective bags or filter media or otherwise repairing the control device.	Process Knowledge	Y	C	
V.B.3.e.3.d	Monitoring		Sealing off a defective baghouse compartment.	Process Knowledge	Y	C	
V.B.3.e.3.e	Monitoring		Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.	Process Knowledge	Y	C	
V.B.3.e.3.f	Monitoring		Shutting down the process producing the particulate emissions.	Process Knowledge	Y	C	
V.B.3.f	Monitoring	[§2103.12.h.6; §63.7330(a)]	For the PEC system baghouse applied to pushing emissions from a coke oven battery, the permittee shall at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in V.B.3.g below and conduct inspections at their specified frequency according to the following requirements:	Direct Measurement/ Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.3.f.1	Monitoring		Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;	Direct Measurement/ Records Review	Y	C	
V.B.3.f.2	Monitoring		Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;	Physical Inspection/ Procedures	Y	C	
V.B.3.f.3	Monitoring		Check the compressed air supply for pulse-jet baghouses each day;	Physical Inspection/ Procedures	Y	C	
V.B.3.f.4	Monitoring		Monitor cleaning cycles to ensure proper operation using an appropriate methodology;	Physical Inspection/ Procedures	Y	C	
V.B.3.f.5	Monitoring		Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;	Physical Inspection/ Procedures	Y	C	
V.B.3.f.6	Monitoring		Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (knead or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;	Physical Inspection/ Procedures	Y	C	
V.B.3.f.7	Monitoring		Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and	Physical Inspection/ Procedures	Y	C	
V.B.3.f.8	Monitoring		Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	Physical Inspection/ Procedures	Y	C	
V.B.3.g	Monitoring	[§2103.12.h.6; §63.7331(a)]	The permittee shall install, operate, and maintain a bag leak detection system on the PEC baghouse according to the following requirements:	Engineering Judgement	Y	C	
V.B.3.g.1	Monitoring		The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;	Design Parameter	Y	C	
V.B.3.g.2	Monitoring		The system must provide output of relative changes in particulate matter loadings;	Design Parameter	Y	C	
V.B.3.g.3	Monitoring		The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;	Design Parameter	Y	C	
V.B.3.g.4	Monitoring		Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;	Engineering Judgement	Y	C	
V.B.3.g.5	Monitoring		To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;	Engineering Judgement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.3.g.6	Monitoring		Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and	Administrative Requirement	Y	C	
V.B.3.g.7	Monitoring		Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.	Engineering Judgement	Y	C	
V.B.3.h	Monitoring	[§2103.12.h.6; §63.7331(b)]	For each CPMS required in V.B.3.m below, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in Conditions V.B.3.h.(1) through (6) below:	Administrative Requirement	Y	C	
V.B.3.h.1	Monitoring		Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);	Direct Measurement/ Records Review	Y	C	
V.B.3.h.2	Monitoring		Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;	Design Parameter	Y	C	
V.B.3.h.3	Monitoring		Performance evaluation procedures and acceptance criteria (e.g., calibrations);	Engineering Judgement	Y	C	
V.B.3.h.4	Monitoring		Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8);	Engineering Judgement	Y	C	
V.B.3.h.5	Monitoring		Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and	Engineering Judgement	Y	C	
V.B.3.h.6	Monitoring		Ongoing recordkeeping and reporting procedures in accordance the general requirements of §63.10(c), (e)(1), and (e)(2)(i).	Administrative Requirement	Y	C	
V.B.3.i	Monitoring	[§2103.12.h.6; §63.7331(c)]	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Records Review	Y	C	
V.B.3.j	Monitoring	[§2103.12.h.6; §63.7331(d)]	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Administrative Requirement	Y	C	
V.B.3.k	Monitoring	[§2103.12.h.6; §63.7331(h)]	If the permittee elects the operating limit in V.B.1.e.1) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.	Direct Measurement/ Records Review	Y	C	
V.B.3.l	Monitoring	[§2103.12.h.6; §63.7331(g)]	If the permittee elects the operating limit in V.B.1.e.2) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the total volumetric flow rate at the inlet of the control device.	Direct Measurement/ Records Review	NA	NA	
V.B.3.m	Monitoring	[§2103.12.h.6; §63.7330(d)]	For each capture system applied to pushing emissions, the permittee shall at all times monitor the fan motor amperes according to the requirements in Condition V.B.3.k or the volumetric flow rate according to the requirements in Condition V.B.3.l above.	Direct Measurement/ Records Review	Y	C	
V.B.3.n	Monitoring	[§2103.12.h.6; §63.7332(a)]	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Direct Measurement/ Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.3.o	Monitoring	[§2103.12.h.6; §63.7332(b)]	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Records Review	Y	C	
V.B.3.p	Monitoring	[§2103.12.h.6; §63.7333(d)]	For each capture system applied to pushing emissions and subject to the operating limit in Condition V.B.1.e above, the permittee shall demonstrate continuous compliance by meeting the requirements in Condition V.B.3.p.1) or V.B.3.p.2) below:	Administrative Requirement	Y	C	
V.B.3.p.1	Monitoring		If the permittee elects the operating limit for fan motor amperes in V.B.1.e.1) V.B.1.e.1) above:	Administrative Requirement	Y	C	
V.B.3.p.1.a	Monitoring		Maintaining the daily average fan motor amperes at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/ Records Review	Y	C	
V.B.3.p.1.b	Monitoring		Checking the fan motor amperes at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/ Records Review	Y	C	
V.B.3.p.2	Monitoring		If the permittee elects the operating limit for volumetric flow rate in V.B.1.e.2) above:	Administrative Requirement	NA	NA	
V.B.3.p.2.a	Monitoring		Maintaining the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/ Records Review	NA	NA	
V.B.3.p.2.b	Monitoring		Checking the volumetric flow rate at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/ Records Review	NA	NA	
V.B.3.q	Monitoring	[§2103.12.h.6; §63.7334(a)]	The permittee shall demonstrate continuous compliance with the work practice standards for fugitive pushing emissions according to the following requirements:	Administrative Requirement	Y	C	
V.B.3.q.1	Monitoring		Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by Condition V.B.3.c.2) above. Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to Condition V.B.3.c.3) above.	Physical Inspection/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.3.q.2	Monitoring		Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in paragraphs V.B.3.q.1) through V.B.3.q.8).	Physical Inspection/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.B.3.q.3	Monitoring		Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in Appendix A to 40 CFR Part 60 using a Method 9 certified observer unless you have an approved alternative procedure under V.B.3.q.7) below.	Physical Inspection/ Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.B.3.q.4	Monitoring		Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (Appendix A to 40 CFR Part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii) for obtaining at least 3 hours of observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.	Physical Inspection/ Procedures	Y	C	
V.B.3.q.5	Monitoring		If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (e.g., as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.	Physical Inspection	Y	C	
V.B.3.q.6	Monitoring		Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.	Physical Inspection	Y	C	
V.B.3.q.6.a	Monitoring		Observe fugitive pushing emissions from a position at least 10 meters from the quench car that provides an unobstructed view and avoids interferences from the topside of the battery. This may require the observer to be positioned at an angle to the quench car rather than perpendicular to it. Typical interferences to avoid include emissions from open standpipes and charging.	Physical Inspection	Y	C	
V.B.3.q.6.b	Monitoring		Observe the opacity of emissions above the battery top with the sky as the background where possible. Record the oven number of any push not observed because of obstructions or interferences.	Physical Inspection/ Records Review	Y	C	
V.B.3.q.6.c	Monitoring		You may reposition after the push to observe emissions during travel if necessary.	Administrative Requirement	Y	C	
V.B.3.q.7	Monitoring		If it is infeasible to implement the procedures in Conditions V.B.3.q.1) through V.B.3.q.6) above for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to the Department for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in Conditions V.B.3.q.1) through V.B.3.q.6) above, identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.	Administrative Requirement	Y	C	
V.B.3.q.8	Monitoring		For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with Condition V.B.3.c above. Maintain records documenting conformance with Condition V.B.3.c above.	Process Knowledge/ Records Review	Y	C	
V.B.3.r	Monitoring	[§2103.12.h.6; §63.7335(c)]	To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in V.B.3.g above, the permittee shall inspect and maintain each baghouse according to the requirements in Conditions V.B.3.g.1) through V.B.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in Condition V.B.3.g.6), you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/ Records Review	Y	C	
V.B.4.a	Record Keeping	[§2103.12.j, Installation Permit 0052-I0061]	The results of the inspections required by Condition V.B.3.b above shall be recorded weekly.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.4.b	Record Keeping	[§2102.04.b.6 ., Installation Permit 0052-I006]	Episodes of non-compliance with Conditions V.B.1.a through V.B.1.g above and corrective actions taken shall be recorded upon occurrence.	Records Review	Y	C	
V.B.4.c	Record Keeping	[§2102.04.b.6 ., Installation Permit 0052-I006]	The permittee shall keep records of each baghouse maintenance inspection and repair, replacement or other corrective action.	Records Review	Y	C	
V.B.4.d	Record Keeping	[§2102.04.e., Installation Permit 0052-I006]	All records shall be retained by the facility for at least five (5) years. These records shall be made available to the Department upon request for inspection and/or copying.	Records Review	Y	C	
V.B.4.e	Record Keeping	[§2103.12.h.6; §63.7342(a)]	The permittee shall keep the following records:	Records Review	Y	C	
V.B.4.e.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Records Review	Y	C	
V.B.4.e.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Records Review	Y	C	
V.B.4.e.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Records Review	Y	C	
V.B.4.f	Record Keeping	[§2103.12.h.6; §63.7342(b)]	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.B.4.f.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Records Review	Y	C	
V.B.4.f.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Records Review	Y	C	
V.B.4.f.3	Record Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).	Records Review	Y	C	
V.B.4.f.4	Record Keeping		Records of the date and time that each deviation started and stopped and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.B.4.g	Record Keeping	[§2103.12.h.6; §63.7342(c)]	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Records Review	Y	C	
V.B.4.h	Record Keeping	[§2103.12.h.6; §63.7342(d)]	The permittee shall keep the records required in Conditions V.B.3.p through V.B.3.r above and V.B. 4.l) through V.B.4.n below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Records Review	Y	C	
V.B.4.i	Record Keeping	[§2103.12.h.6; §63.7343(a)]	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Records Review	Y	C	
V.B.4.j	Record Keeping	[§2103.12.h.6; §63.7343(b)]	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Records Review	Y	C	
V.B.4.k	Record Keeping	[§2103.12.h.6; §63.7343(c)]	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.4.l	Record Keeping	[§2103.12.h.6; §63.7335(b)]	For each coke oven battery with a capture system or control device applied to pushing emissions, the permittee shall demonstrate continuous compliance with the operation and maintenance requirements in Condition V.B.3.e above by meeting the following requirements:	Records Review	Y	C	
V.B.4.l.1	Record Keeping		Making monthly inspections of capture systems according to Condition V.B. 3.e.1) above and recording all information needed to document conformance with these requirements;	Physical Inspection/ Records Review	Y	C	
V.B.4.l.2	Record Keeping		Performing preventative maintenance for each control device according to Condition V.B. 3.e.2) above and recording all information needed to document conformance with these requirements; and	Process Knowledge/ Records Review	Y	C	
V.B.4.l.3	Record Keeping		Initiating and completing corrective action for a bag leak detection system alarm according to Condition V.B.3.e.3) above and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.	Process Knowledge/ Records Review	Y	C	
V.B.4.m	Record Keeping	[63.7335(c)]	The permittee shall inspect and maintain the pushing emission control baghouse as required in V.B.3.g.1) through V.B.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in V.B.3.g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/ Records Review	Y	C	
V.B.4.n	Record Keeping	[63.7335(d)]	The permittee shall maintain a current copy of the operation and maintenance plans required in V.B.3.e onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Records Review	Y	C	
V.B.5.a	Reporting	[§2109.03 and Enforcement Order 202.E, 3/28/90]	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Report Submission	Y	C	
V.B.5.a.1	Reporting		For each individual coke battery or group of batteries served by the same pushing emission control system, and for all coke batteries combined:	Engineering Judgement	Y	C	
V.B.5.a.1.a	Reporting		The total number of pushes for the month;	Records Review	Y	C	
V.B.5.a.1.b	Reporting		The total number of controlled pushes for the month; and the monthly percentage availability (on-line time) of the pushing control system, based on the total number of pushes and the total number of controlled pushes.	Records Review	Y	C	
V.B.5.a.2	Reporting		For each outage of the pushing control system at each individual coke battery or group of batteries served by the same pushing emission control system:	Records Review	Y	C	
V.B.5.a.2.a	Reporting		The batteries affected;	Records Review	Y	C	
V.B.5.a.2.b	Reporting		The starting and ending dates and times;	Records Review	Y	C	
V.B.5.a.2.c	Reporting		The total time of each outage, to the nearest tenth of an hour;	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.5.a.2.d	Reporting		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage.	Records Review	Y	C	
V.B.5.b	Reporting	[<input type="checkbox"/> 2102.04.b.6., Installation Permit 0052-1006]	The permittee shall report all instances of non-compliance with Conditions V.B.1.a through V.B.1.g above, V.B.3 above, V.B.4.a through V.B.4.d above along with all corrective action taken to restore the subject equipment to compliance, to the Department every six months.	Report Submission	Y	C	
V.B.5.c	Reporting	[<input type="checkbox"/> 2102.04.e., Installation Permit 0052-1006]	Reporting instances of non-compliance in accordance with Condition V.B.5.b above, does not relieve the permittee of the requirement to report breakdowns in accordance with §2108.01.c, if appropriate.	Report Submission	Y	C	
V.B.5.d	Reporting	[§2103.12.h.6; §63.7336(a)]	The permittee shall report each instance in which each emission limitation in Conditions V.B.1.d, V.B.1.e and V.B.1.f was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.B.6.a, V.B.6.b and V.B.6.c. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCC permit section. These deviations must be reported according to the requirements in V.B.5.h through V.B.5.k below.	Report Submission	Y	C	
V.B.5.e	Reporting	[§2103.12.h.6; §63.7336(b)]	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	
V.B.5.e.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Engineering Judgement	Y	C	
V.B.5.e.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.B.5.f	Reporting	[§2103.12.h.6; §63.7340(a)]	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Report Submission	Y	C	
V.B.5.g	Reporting	[§2103.12.h.6; §63.7340(d)]	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Report Submission	Y	C	
V.B.5.h	Reporting	[§2103.12.h.6; §63.7341(a)]	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the PEC stacks to the Department according to the requirements in Conditions V.B.5.h.1) and V.B.5.h.2) below:	Report Submission	Y	C	
V.B.5.h.1	Reporting		Each compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Administrative Requirement	Y	C	
V.B.5.h.2	Reporting		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the Department has established instead of according to the dates in Conditions V.B.5.h.1) above.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.B.5.i	Reporting	[§2103.12.h.6; §63.7341(c)]	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.B.5.i.1) through V.B.5.i.3) below, and as applicable, Conditions V.B.5.i.4) through V.B.5.i.8) below.	Records Review	Y	C	
V.B.5.i.1	Reporting		Company name and address.	Records Review	Y	C	
V.B.5.i.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Records Review	Y	C	
V.B.5.i.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Records Review	Y	C	
V.B.5.i.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Records Review	Y	C	
V.B.5.i.5	Reporting		If there were no deviations from the continuous compliance requirements in Conditions V.B.3.p through V.B.3.r and V.B.4.l through V.B.4.n above (for all affected sources other than battery stacks), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.	Records Review	Y	C	
V.B.5.i.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Records Review	Y	C	
V.B.5.i.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.B.5.i.4), V.B.5.i.7)a) and V.B.5.i.7)b) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.B.5.i.7.a	Reporting		The total operating time of each affected source during the reporting period.	Records Review	Y	C	
V.B.5.i.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Records Review	Y	C	
V.B.5.i.8	Reporting		For each deviation from an emission limitation occurring at an affected source where the permittee is using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.B.5.i.4), V.B.5.i.8)a) through V.B.5.i.8)l) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.B.5.i.8.a	Reporting		The date and time that each malfunction started and stopped.	Records Review	Y	C	
V.B.5.i.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Records Review	Y	C	
V.B.5.i.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Records Review	Y	C	
V.B.5.i.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.B.5.i.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Records Review	Y	C	
V.B.5.i.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Records Review	Y	C	
V.B.5.i.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Records Review	Y	C	
V.B.5.i.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Records Review	Y	C	
V.B.5.i.8.i	Reporting		A brief description of the process units.	Records Review	Y	C	
V.B.5.i.8.j	Reporting		A brief description of the continuous monitoring system.	Records Review	Y	C	
V.B.5.i.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Records Review	Y	C	
V.B.5.i.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Engineering Judgement	Y	C	
V.B.5.j	Reporting	[§2103.12.h.6; §63.7341(d)]	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Report Submission	Y	C	
V.B.5.k	Reporting	[§2103.12.h.6; §63.7341(e)]	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.B.6.a	Work Practice Standards	[§2103.12.h.6; §63.7310(c)]	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63, Subpart A, §63.6(e)(3).	Engineering Judgement	Y	C	
V.B.6.b	Work Practice Standards	[§2103.12.k; §2103.12.h.6; §63.7300(a)]	As required by §63.6(e)(1)(i), the permittee shall operate and maintain each coke battery including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the level required by 40 CFR Part 63, Subpart CCCCC.	Process Knowledge	Y	C	
V.B.6.c	Work Practice Standards	[§2103.12.k; §2103.12.h.6; §63.7310(a)]	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Records Review	Y	C	
V.B.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.1.a	Restrictions	§2103.12.h.6; §63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained. [§2103.12.h.6; §63.307(a)(1)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.b	Restrictions	[§2103.12.h.6.; §63.307(a)(2)]	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system. [§2103.12.h.6.; §63.307(a)(2)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system. [§2103.12.h.6; §63.307(d)]	Administrative Requirement	Y	C	
V.C.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.C.1.e	Restrictions	§2103.12.h.6.; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.f	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred	Record Review	Y	C	
V.C.1.g	Restrictions	§2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H2S are added to the measured H2S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.h	Restrictions	§2103.12.h.6.; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.C.1.a through V.C.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours with an observation period of 2 hours.	Direct Measurement & Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.1.i	Restrictions	§2103.12.h.6.; §63.304(b)(2)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative	Y	C	
V.C.1.i.1	Restrictions		3.3 percent leaking coke oven doors as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.2	Restrictions		0.4 percent leaking topside port lids, as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.3	Restrictions		2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.C.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.C.1.i.4	Restrictions		12 seconds of visible emissions per charge, as determined by the procedures in Condition V.C.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.C.1.j	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Process Knowledge/ Record Review	Y	C	
V.C.1.k	Restrictions	§2105.21.a.1	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 55 seconds during any five (5) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.l	0	§2105.21.b.4	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.m	Restrictions	§2105.21.b.1.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.C.1.n	Restrictions	§2105.21.c.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than one percent (1%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.o	Restrictions	§2105.21.d.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than four percent (4%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.p	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.1.q	Restrictions	§2105.21.f.1	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.015 grains per dry standard cubic foot.	Direct Measurement	Y	C	
V.C.1.r	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in excess of three (3) minutes in any 60 minute period; or equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.s	Restrictions	Enforcement Order No. 161, July 23, 1990	The permittee shall install, operate, maintain and calibrate a continuous opacity monitoring system on each combustion stack serving Coke Oven Batteries 13, 14 and 15.	Process Knowledge & Record Review	Y	C	
V.C.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative	Y	C	
V.C.1.t.1	Restrictions		Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.C.1.t.2	Restrictions		Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.C.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	
V.C.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; 2101.11.b & c.	Emissions from each combustion stack for Coke Batteries No. 13, No. 14 or No. 15 shall not exceed the emission limitations in Table V-C-1.	Administrative Requirement	Y	C	
V.C.1.v	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.C.1.v.1	Restrictions		PM 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM-10 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM 2.5 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		SO2 33.5 146.5		Y	C	
V.C.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM2.5 and PM10 particulate emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.C.1.q above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.C.2.b	Testing	§2108.02.b, §2108.02.e.	The permittee shall have sulfur dioxide (SO2) emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.C.1.v above. SO2 emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates.	Record Review	Y	C	
V.C.2.c	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions testing and evaluations for NOx on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify NOx emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NOx. Testing for NOx shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.d	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.C.3.a	Monitoring		The permittee shall:	Administrative Requirement			
V.C.3.a.1	Monitoring	§2103.12.h.6.; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.3.a.2	Monitoring	§2103.12.h.6.; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.C.3.a.3	Monitoring	§2103.12.h.6.; §2103.12.i; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.C.3.a.4	Monitoring	§2103.12.h.6.; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	
V.C.3.b	Monitoring	§2103.12.h.6.; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.C.3.c below through V.C.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Administrative Requirement	Y	C	
V.C.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.C.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.C.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.C.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.C.3.b above.	Record Review	Y	C	
V.C.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at is option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Record Review	Y	C	
V.C.3.c	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements:	Administrative	Y	C	
V.C.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.C.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.C.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.C.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection.	Record Review	Y	C	
V.C.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.C.3.d	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.C.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.e	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.C.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.C.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.C.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.C.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.C.1.d above and V.C.1.e above:	Administrative Requirement	Y	C	
V.C.3.g.1	Monitoring		Compliance with the provisions in Condition V.C.1.h above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.g.2	Monitoring		Compliance with the provisions in Condition V.C.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.C.3.h	Monitoring	§2103.12.h.6; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.C.3.i	Monitoring	§2103.12.h.6.; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.C.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.C.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.C.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.C.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.C.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.C.3.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.C.3.j	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in §63.7331(i).	Process Knowledge, Physical Inspection and Record Review	Y	C	
V.C.3.k	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan .	Record Review	Y	C	
V.C.3.l	Monitoring	§2103.12.h.6.; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Record Review	Y	C	
V.C.3.m	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(j)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.C.3.m.1) through V.C.3.m.5) below:	Administrative Requirement	Y	C	
V.C.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.C.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS.	Record Review	Y	C	
V.C.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Record Review	Y	C	
V.C.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in V.C.2.e above using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.C.3.n	Monitoring	§2103.12.h.6.; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.C.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.C.3.p	Monitoring	§2103.12.h.6.; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.C.1.t. above by meeting the requirements in Conditions V.C.3.p.1) and V.C.3.p.2) below:	Administrative Requirement	Y	C	
V.C.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.C.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.C.3.m above	Record Review	Y	C	
V.C.4.a	Record Keeping	§2103.12.h.6; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.C.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.C.4.a.1	Record Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.4.a.2	Record Keeping		If the permittee is required under Condition IV.27.c to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that <u>emission point during the implementation period</u> :	Administrative Requirement	Y	C	
V.C.4.a.2.a	Record Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training <u>required under Condition IV.27.b.1) above</u> :	Record Review	Y	C	
V.C.4.a.2.b	Record Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Record Review	Y	C	
V.C.4.a.2.c	Record Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Record Review	Y	C	
V.C.4.a.2.d	Record Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) above; and	Record Review	Y	C	
V.C.4.a.3	Record Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.C.1.C through V.C.1.d above.	Record Review	Y	C	
V.C.4.a.4	Record Keeping		Records specified in Condition V.C.6.g below regarding the basis of each <u>malfunction notification</u> .	Record Review	Y	C	
V.C.4.b	Record Keeping	§2103.12.j.; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	
V.C.4.b.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the <u>requirements in §63.10(b)(2)(xiv)</u> .	Record Review	Y	C	
V.C.4.b.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and <u>malfunction</u> .	Record Review	Y	C	
V.C.4.b.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.C.4.c	Record Keeping	§2103.12.h.6.; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.C.4.c.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C	
V.C.4.c.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.4.c.3	Record Keeping		Previous (that is, superceded) versions of the performance evaluation plan as <u>required in §63.8(d)(3)</u> .	Record Review	Y	C	
V.C.4.c.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.C.4.d	Record Keeping	[§2103.12.j.; §63.7342©	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Administrative Requirement	Y	C	
V.C.4.e	Record Keeping	§2103.12.h.6.; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.4.f	Record Keeping	§2103.12.h.6; §63.7343©	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.C.4.g	Record Keeping	§63.7335(a)	The permittee must demonstrate continuous compliance with the operation and maintenance plans required in V.C.3.i above by adhering at all times to the plan requirements and recording all information needed to document conformance.	Record Review	Y	C	
V.C.4.h	Record Keeping	§2103.12.j.; §63.7335(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in V.C.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.C.4.i	Record Keeping	§2103.12.h.6.; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.C.6.k by maintaining records that document conformance with requirements in V.C.6.k.1) through V.C.6.k.5).	Record Review	Y	C	
V.C.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.C.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.C.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.C.5.a.1.c	Reporting		Total coke oven gas produced; in MMCF;	Record Review	Y	C	
V.C.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.C.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.C.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.C.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.C.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.C.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.C.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.C.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.C.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.C.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.C.5.b	Reporting	Enforcement Order No. 161, July 23, 1990	No later than twenty (20) days after the end of each month, a written report of a summary of the following for each combustion stack continuous opacity monitoring system during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.b.1	Reporting		The monthly average percent availability (on-line time), based on total minutes of coke operations and total minutes available;	Record Review	Y	C	
V.C.5.b.2	Reporting		The daily percentage available;	Record Review	Y	C	
V.C.5.b.3	Reporting		The number of days on which there was less than 100% availability;	Record Review	Y	C	
V.C.5.b.4	Reporting		For each of the coke oven combustion stack visible emission standards set forth in §2105.21.f.3. & f.4. , the total number of hours for the month, and the number of hours each day, during which an exceedance of such standard was measured by such continuous opacity monitor;	Record Review	Y	C	
V.C.5.b.5	Reporting		The number and nature of tests, calibrations, and any other quality assurance activities performed; and	Record Review	Y	C	
V.C.5.b.6	Reporting		The dates, times and results of all such activities.	Record Review	Y	C	
V.C.5.c	Reporting	§2103.12.k.; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	
V.C.5.c.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.C.5.d below.	Record Review	Y	C	
V.C.5.c.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.C.6.f below; and	Record Review	Y	C	
V.C.5.c.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.C.5.d	Reporting	§2103.12.h.6.; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6.	Record Review	Y	C	
V.C.5.e	Reporting	§2103.12.h.6.; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Administrative Requirement	Y	C	
V.C.5.e.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.e.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.5.f	Reporting	§2103.12.k.; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Administrative Requirement	Y	C	
V.C.5.f.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.5.f.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.5.g	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011 V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 13-15 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	
V.C.5.h	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011, Condition V.a.8	The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 13-15.	Record Review	Y	C	
V.C.5.i	Reporting	§2103.12.h.6.; §63.7336(a)	The permittee shall report each instance in which you did not meet each emission limitation in 40 CFR Part 63, Subpart CCCCC that applies to you. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in this 40 CFR Part 63, Subpart CCCCC that applies to you. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.C.5.m through V.C.5.q below.	Record Review	Y	C	
V.C.5.j	Reporting	§2103.12.h.6.; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.C.5.j.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.C.5.j.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.C.5.k	Reporting	§2103.12.h.6.; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.1	Reporting	§2103.12.h.6; §63.7340(d)	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Record Review	Y	C	
V.C.5.m	Reporting	§2103.12.h.6.; §63.7341(a)	Unless the Department has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources according to the requirements in V.C.5.m.1) through V.C.5.m.2) below:	Record Review	Y	C	
V.C.5.m.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	
V.C.5.m.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.C.5.n	Reporting	§2103.12.h.6; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.C.1.t above. The reports must include the information in Conditions V.C.5.o.1) through V.C.5.o.3) below, and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	
V.C.5.o	Reporting	§2103.12.h.6; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.C.5.o.1) through V.C.5.o.3), and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	
V.C.5.o.1	Reporting		Company name and address.	Record Review	Y	C	
V.C.5.o.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.C.5.o.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.C.5.o.4	Reporting		If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.C.5.o.5	Reporting		If there were no deviations from the continuous compliance requirements in V.C.3.p for battery stacks, a statement that there were no deviations from the <u>emission limitations during the reporting period.</u>	Record Review	Y	C	
V.C.5.o.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control <u>during the reporting period.</u>	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.o.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.C.5.o.4), V.C.5.o.7)a) and V.C.5.o.7)b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.C.5.o.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.C.5.o.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.C.5.o.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, you must include the information in Conditions V.C.5.o.4), V.C.5.o.8)a) through V.C.5.o.8)l) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.C.5.o.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.C.5.o.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.C.5.o.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.C.5.o.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.C.5.o.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.C.5.o.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.C.5.o.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.C.5.o.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.C.5.o.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.C.5.o.8.j	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.C.5.o.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.o.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.C.5.p	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.C.5.q	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Record Review	Y	C	
V.C.6.a	Work Practice Standards		Coke Oven Batteries 13, 14 and 15 shall be properly maintained and operated at all times according to good engineering and air pollution control practices. [RACT Plan 234]	Engineering Judgement & Record Review	Y	C	
V.C.6.b	Work Practice Standards		The permittee shall comply with the provisions of applicable workpractice requirements in Site level Condition IV.27 IV.27.c above. [§2103.12.h.6.; §63.306(a)]	Record Review	Y	C	
V.C.6.c	Work Practice Standards		The permittee shall develop and implement according to Condition V.C.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan. [§2103.12.h.6.; §63.310(b)]	Record Review	Y	C	
V.C.6.d	Work Practice Standards		During a period of startup, shutdown, or malfunction the permittee shall: [§2103.12.h.6.; §63.310(c)]	Administrative Requirement	Y	C	
V.C.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Record Review	Y	C	
V.C.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.C.6.e	Work Practice Standards		In order for the provisions of Condition V.C.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee: [§2103.12.h.6.; §63.310(d)]	Administrative Requirement	Y	C	
V.C.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.C.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.6.f	Work Practice Standards		Within 14 days of the notification made under Condition V.C.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that: [§2103.12.h.6.; §63.310(e)]	Administrative Requirement	Y	C	
V.C.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.6.g	Work Practice Standards		The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.C.6.e above. [§2103.12.h.6.; §63.310(f)]	Record Review	Y	C	
V.C.6.h	Work Practice Standards		To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department. [§2103.12.h.6.; §63.310(g)]	Record Review	Y	C	
V.C.6.i	Work Practice Standards		The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan: [§2103.12.h.6.; §63.310(h)]	Administrative Requirement	Y	C	
V.C.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	
V.C.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.C.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.C.6.j	Work Practice Standards		If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not: [§2103.12.h.6.; §63.310(i)]	Administrative Requirement	Y	C	
V.C.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Record Review	Y	C	
V.C.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Record Review	Y	C	
V.C.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.6.k	Work Practice Standards		The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to: [§2103.12.h.6; §63.7294(a)]	Record Review	Y	C	
V.C.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.C.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.C.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.C.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.C.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.C.6.l	Work Practice Standards		As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.C.6.k above. [§2103.12.h.6; §63.7294(b)]	Record Review	Y	C	
V.C.6.m	Work Practice Standards		The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2. [§2103.12.h.6; §63.7310(a)]	Record Review	Y	C	
V.C.7	Work Practice Standards		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.1.a	Restrictions	§2103.12.h.6; §63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained. [§2103.12.h.6; §63.307(a)(1)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.b	Restrictions	[§2103.12.h.6.; §63.307(a)(2)]	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system. [§2103.12.h.6.; §63.307(a)(2)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system. [§2103.12.h.6; §63.307(d)]	Administrative Requirement	Y	C	
V.C.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.C.1.e	Restrictions	§2103.12.h.6.; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.C.1.f	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	
V.C.1.g	Restrictions	§2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.h	Restrictions	§2103.12.h.6.; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.C.1.a through V.C.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours with an observation period of 2 hours.	Direct Measurement & Record Review	Y	C	
V.C.1.i	Restrictions	§2103.12.h.6.; §63.304(b)(2)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.1.i.1	Restrictions		3.3 percent leaking coke oven doors as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.2	Restrictions		0.4 percent leaking topside port lids, as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.3	Restrictions		2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.C.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.C.1.i.4	Restrictions		12 seconds of visible emissions per charge, as determined by the procedures in Condition V.C.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.C.1.j	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Process Knowledge/ Record Review	Y	C	
V.C.1.k	Restrictions	§2105.21.a.1	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 55 seconds during any five (5) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.l	Restrictions	§2105.21.b.4	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.m	Restrictions	§2105.21.b.1.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.C.1.n	Restrictions	§2105.21.c.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than one percent (1%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.o	Restrictions	§2105.21.d.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than four percent (4%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.p	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.q	Restrictions	§2105.21.f.1	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.015 grains per dry standard cubic foot.	Direct Measurement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.1.r	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in excess of three (3) minutes in any 60 minute period; or equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.s	Restrictions	Enforcement Order No. 161, July 23, 1990	The permittee shall install, operate, maintain and calibrate a continuous opacity monitoring system on each combustion stack serving Coke Oven Batteries 13, 14 and 15.	Process Knowledge & Record Review	Y	C	
V.C.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative	Y	C	
V.C.1.t.1	Restrictions		Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.C.1.t.2	Restrictions		Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.C.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	
V.C.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; 2101.11.b & c.	Emissions from each combustion stack for Coke Batteries No. 13, No. 14 or No. 15 shall not exceed the emission limitations in Table V-C-1.	Administrative Requirement	Y	C	
V.C.1.v	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.C.1.v.1	Restrictions		PM 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM-10 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM 2.5 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		SO2 33.5 146.5		Y	C	
V.C.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				
V.C.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM2.5 and PM10 particulate emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.C.1.q above . Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.2.b	Testing	§2108.02.b, §2108.02.e.	The permittee shall have sulfur dioxide (SO ₂) emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.C.1.v above. SO ₂ emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates.	Record Review	Y	C	
V.C.2.c	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions testing and evaluations for NO _x on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify NO _x emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NO _x . Testing for NO _x shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.d	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.C.3.a	Monitoring		The permittee shall:	Administrative Requirement			
V.C.3.a.1	Monitoring	§2103.12.h.6.; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	
V.C.3.a.2	Monitoring	§2103.12.h.6.; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.C.3.a.3	Monitoring	§2103.12.h.6.; §2103.12.i; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.C.3.a.4	Monitoring	§2103.12.h.6.; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.b	Monitoring	§2103.12.h.6.; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.C.3.c below through V.C.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Administrative Requirement	Y	C	
V.C.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.C.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.C.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.C.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.C.3.b above.	Record Review	Y	C	
V.C.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at is option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Record Review	Y	C	
V.C.3.c	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements:	Administrative	Y	C	
V.C.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.C.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.C.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.C.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.C.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;	Record Review	Y	C	

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				Method	Y/N	Type C/I	
V.C.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.C.3.d	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.C.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.e	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.C.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.C.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.C.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.C.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.C.1.d above and V.C.1.e above:	Administrative Requirement	Y	C	
V.C.3.g.1	Monitoring		Compliance with the provisions in Condition V.C.1.h above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	
V.C.3.g.2	Monitoring		Compliance with the provisions in Condition V.C.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.C.3.h	Monitoring	§2103.12.h.6; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.C.3.i	Monitoring	§2103.12.h.6.; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.C.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.C.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.C.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.C.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.C.3.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.C.3.j	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in §63.7331(i).	Process Knowledge, Physical Inspection and Record Review	Y	C	
V.C.3.k	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan .	Record Review	Y	C	
V.C.3.l	Monitoring	§2103.12.h.6.; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Process Knowledge	Y	C	
V.C.3.m	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(j)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.C.3.m.1) through V.C.3.m.5) below:	Administrative Requirement	Y	C	
V.C.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.C.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60;	Record Review	Y	C	
V.C.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS.	Record Review	Y	C	
V.C.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Record Review	Y	C	
V.C.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in V.C.2.e above using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	

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				Method	Y/N	Type C/I	
V.C.3.n	Monitoring	§2103.12.h.6.; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.C.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.C.3.p	Monitoring	§2103.12.h.6.; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.C.1.t. above by meeting the requirements in Conditions V.C.3.p.1) and V.C.3.p.2) below:	Administrative Requirement	Y	C	
V.C.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.C.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.C.3.m above	Record Review	Y	C	
V.C.4.a	Record Keeping	§2103.12.h.6; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.C.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.C.4.a.1	Record Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	
V.C.4.a.2	Record Keeping		If the permittee is required under Condition IV.27.c to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point during the implementation period;	Administrative Requirement	Y	C	
V.C.4.a.2.a	Record Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required under Condition IV.27.b.1) above;	Record Review	Y	C	
V.C.4.a.2.b	Record Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Record Review	Y	C	
V.C.4.a.2.c	Record Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Record Review	Y	C	
V.C.4.a.2.d	Record Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) above; and	Record Review	Y	C	

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				Method	Y/ N	Type C/I	
V.C.4.a.3	Record Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.C.1.C through V.C.1.d above.	Record Review	Y	C	
V.C.4.a.4	Record Keeping		Records specified in Condition V.C.6.g below regarding the basis of each malfunction notification.	Record Review	Y	C	
V.C.4.b	Record Keeping	§2103.12.j.; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	
V.C.4.b.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Record Review	Y	C	
V.C.4.b.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Record Review	Y	C	
V.C.4.b.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.C.4.c	Record Keeping	§2103.12.h.6.; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.C.4.c.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C	
V.C.4.c.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.4.c.3	Record Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).	Record Review	Y	C	
V.C.4.c.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.C.4.d	Record Keeping	[§2103.12.j.; §63.7342©	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Administrative Requirement	Y	C	
V.C.4.e	Record Keeping	§2103.12.h.6.; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	
V.C.4.f	Record Keeping	§2103.12.h.6.; §63.7343©	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.C.4.g	Record Keeping	§63.7335(a)	The permittee must demonstrate continuous compliance with the operation and maintenance plans required in V.C.3.i above by adhering at all times to the plan requirements and recording all information needed to document conformance.	Record Review	Y	C	
V.C.4.h	Record Keeping	§2103.12.j.; §63.7335(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in in V.C.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.C.4.i	Record Keeping	§2103.12.h.6.; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.C.6.k by maintaining records that document conformance with requirements in V.C.6.k.1) through V.C.6.k.5).	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.C.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.C.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.C.5.a.1.c	Reporting		Total coke oven gas produced; in MMCF;	Record Review	Y	C	
V.C.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.C.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.C.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.C.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.C.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.C.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.C.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.C.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.C.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	
V.C.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.C.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.C.5.b	Reporting	Enforcement Order No. 161, July 23, 1990	No later than twenty (20) days after the end of each month, a written report of a summary of the following for each combustion stack continuous opacity monitoring system during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.b.1	Reporting		The monthly average percent availability (on-line time), based on total minutes of coke operations and total minutes available;	Record Review	Y	C	
V.C.5.b.2	Reporting		The daily percentage available;	Record Review	Y	C	
V.C.5.b.3	Reporting		The number of days on which there was less than 100% availability;	Record Review	Y	C	
V.C.5.b.4	Reporting		For each of the coke oven combustion stack visible emission standards set forth in §2105.21.f.3. & f.4. , the total number of hours for the month, and the number of hours each day, during which an exceedance of such standard was measured by such continuous opacity monitor:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.b.5	Reporting		The number and nature of tests, calibrations, and any other quality assurance activities performed; and	Record Review	Y	C	
V.C.5.b.6	Reporting		The dates, times and results of all such activities.	Record Review	Y	C	
V.C.5.c	Reporting	§2103.12.k.; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	
V.C.5.c.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.C.5.d below.	Record Review	Y	C	
V.C.5.c.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.C.6.f below; and	Record Review	Y	C	
V.C.5.c.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.C.5.d	Reporting	§2103.12.h.6.; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6	Record Review	Y	C	
V.C.5.e	Reporting	§2103.12.h.6.; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Administrative Requirement	Y	C	
V.C.5.e.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	
V.C.5.e.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.5.f	Reporting	§2103.12.k.; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Administrative Requirement	Y	C	
V.C.5.f.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.5.f.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.5.g	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011 V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 13-15 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.h	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011, Condition V.a.8	The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 13-15.	Record Review	Y	C	
V.C.5.i	Reporting	§2103.12.h.6.; §63.7336(a)	The permittee shall report each instance in which you did not meet each emission limitation in 40 CFR Part 63, Subpart CCCCC that applies to you. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in this 40 CFR Part 63, Subpart CCCCC that applies to you. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.C.5.m through V.C.5.q below.	Record Review	Y	C	
V.C.5.j	Reporting	§2103.12.h.6.; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.C.5.j.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the <u>startup, shutdown, and malfunction plan</u> .	Record Review	Y	C	
V.C.5.j.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the <u>provisions in §63.6(e)</u> .	Administrative Requirement	Y	C	
V.C.5.k	Reporting	§2103.12.h.6.; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you <u>by the specified dates</u> .	Record Review	Y	C	
V.C.5.l	Reporting	§2103.12.h.6.; §63.7340(d)	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Record Review	Y	C	
V.C.5.m	Reporting	§2103.12.h.6.; §63.7341(a)	Unless the Department has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources according to the requirements in <u>V.C.5.m.1) through V.C.5.m.2) below</u> :	Record Review	Y	C	
V.C.5.m.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in <u>accordance with General Condition III.15.e above</u> .	Record Review	Y	C	
V.C.5.m.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly <u>reporting period</u> .	Record Review	Y	C	
V.C.5.n	Reporting	§2103.12.h.6.; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.C.1.t above. The reports must include the information in Conditions V.C.5.o.1) through V.C.5.o.3) below, and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.o	Reporting	§2103.12.h.6; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.C.5.o.1) through V.C.5.o.3), and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	
V.C.5.o.1	Reporting		Company name and address.	Record Review	Y	C	
V.C.5.o.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.C.5.o.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.C.5.o.4	Reporting		If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.C.5.o.5	Reporting		If there were no deviations from the continuous compliance requirements in V.C.3.p for battery stacks, a statement that there were no deviations from the <u>emission limitations during the reporting period.</u>	Record Review	Y	C	
V.C.5.o.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control <u>during the reporting period.</u>	Record Review	Y	C	
V.C.5.o.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.C.5.o.4), V.C.5.o.7)a) and V.C.5.o.7)b) below. This includes periods of <u>startup, shutdown, and malfunction</u>	Record Review	Y	C	
V.C.5.o.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.C.5.o.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.C.5.o.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, you must include the information in Conditions V.C.5.o.4), V.C.5.o.8)a) through V.C.5.o.8)l) below. This includes periods of <u>startup, shutdown, and malfunction.</u>	Record Review	Y	C	
V.C.5.o.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.C.5.o.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.o.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.C.5.o.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.C.5.o.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.C.5.o.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.C.5.o.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.C.5.o.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.C.5.o.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.C.5.o.8.j	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.C.5.o.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	
V.C.5.o.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.C.5.p	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.C.5.q	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Record Review	Y	C	
V.C.6.a	Work Practice Standards		Coke Oven Batteries 13, 14 and 15 shall be properly maintained and operated at all times according to good engineering and air pollution control practices. [RACT Plan 234]	Engineering Judgement & Record Review	Y	C	
V.C.6.b	Work Practice Standards		The permittee shall comply with the provisions of applicable workpractice requirements in Site level Condition IV.27 IV.27.c above. [§2103.12.h.6.; §63.306(a)]	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.6.c	Work Practice Standards		The permittee shall develop and implement according to Condition V.C.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan. [§2103.12.h.6.; §63.310(b)]	Record Review	Y	C	
V.C.6.d	Work Practice Standards		During a period of startup, shutdown, or malfunction the permittee shall: [§2103.12.h.6.; §63.310(c)]	Administrative Requirement	Y	C	
V.C.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Record Review	Y	C	
V.C.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.C.6.e	Work Practice Standards		In order for the provisions of Condition V.C.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee: [§2103.12.h.6.; §63.310(d)]	Administrative Requirement	Y	C	
V.C.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	
V.C.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.C.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.6.f	Work Practice Standards		Within 14 days of the notification made under Condition V.C.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that: [§2103.12.h.6.; §63.310(e)]	Administrative Requirement	Y	C	
V.C.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.6.g	Work Practice Standards		The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.C.6.e above. [§2103.12.h.6.; §63.310(f)]	Record Review	Y	C	
V.C.6.h	Work Practice Standards		To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department. [§2103.12.h.6.; §63.310(g)]	Record Review	Y	C	
V.C.6.i	Work Practice Standards		The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan: [§2103.12.h.6.; §63.310(h)]	Administrative Requirement	Y	C	
V.C.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.C.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.C.6.j	Work Practice Standards		If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not: [§2103.12.h.6; §63.310(i)]	Administrative Requirement	Y	C	
V.C.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Record Review	Y	C	
V.C.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Record Review	Y	C	
V.C.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	
V.C.6.k	Work Practice Standards		The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to: [§2103.12.h.6; §63.7294(a)]	Record Review	Y	C	
V.C.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.C.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.C.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.C.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.C.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.C.6.l	Work Practice Standards		As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.C.6.k above. [§2103.12.h.6; §63.7294(b)]	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.6.m	Work Practice Standards		The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2. [§2103.12.h.6; §63.7310(a)]	Record Review	Y	C	
V.C.7	Work Practice Standards		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.1.a	Restrictions	§2103.12.h.6; §63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained. [§2103.12.h.6; §63.307(a)(1)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.b	Restrictions	[§2103.12.h.6.; §63.307(a)(2)]	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system. [§2103.12.h.6.; §63.307(a)(2)]	Process Knowledge & Physical Inspection	Y	C	
V.C.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.A.1.a above and V.A.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system. [§2103.12.h.6; §63.307(d)]	Administrative Requirement	Y	C	
V.C.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.C.1.e	Restrictions	§2103.12.h.6.; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.C.1.f	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and the pollution control equipment required under 40 CFR Part 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	
V.C.1.g	Restrictions	§2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H2S are added to the measured H2S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.h	Restrictions	§2103.12.h.6.; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.C.1.a through V.C.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours with an observation period of 2 hours.	Direct Measurement & Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.1.i	Restrictions	§2103.12.h.6.; §63.304(b)(2)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative	Y	C	
V.C.1.i.1	Restrictions		3.3 percent leaking coke oven doors as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.2	Restrictions		0.4 percent leaking topside port lids, as determined by the procedures in Condition V.C.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.C.1.i.3	Restrictions		2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.C.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.C.1.i.4	Restrictions		12 seconds of visible emissions per charge, as determined by the procedures in Condition V.C.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.C.1.j	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan required by Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Process Knowledge/ Record Review	Y	C	
V.C.1.k	Restrictions	§2105.21.a.1	The permittee shall not operate, or allow to be operated any battery of coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 55 seconds during any five (5) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.l	Restrictions	§2105.21.b.4	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.m	Restrictions	§2105.21.b.1.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.n	Restrictions	§2105.21.c.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than one percent (1%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.o	Restrictions	§2105.21.d.1	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, there are visible emissions from more than four percent (4%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.C.1.p	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 13, 14 or 15 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.1.q	Restrictions	§2105.21.f.1	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.015 grains per dry standard cubic foot.	Direct Measurement	Y	C	
V.C.1.r	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 13, 14 or 15 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in excess of three (3) minutes in any 60 minute period; or equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.1.s	Restrictions	Enforcement Order No. 161, July 23, 1990	The permittee shall install, operate, maintain and calibrate a continuous opacity monitoring system on each combustion stack serving Coke Oven Batteries 13, 14 and 15.	Process Knowledge & Record Review	Y	C	
V.C.1.t	Restrictions	§2103.12.h.6.; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative	Y	C	
V.C.1.t.1	Restrictions		Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.C.1.t.2	Restrictions		Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	
V.C.1.u	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks within 30 calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test within 60 calendar days following completion of the performance test according to §63.10(d).	Record Review	Y	C	
V.C.1.v	Restrictions	§2105.21.f.2; §2105.21.h.4; 2101.11.b & c.	Emissions from each combustion stack for Coke Batteries No. 13, No. 14 or No. 15 shall not exceed the emission limitations in Table V-C-1.	Administrative Requirement	Y	C	
V.C.1.v	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT				
V.C.1.v.1	Restrictions		PM 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM-10 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		PM 2.5 8.33 36.50		Y	C	
V.C.1.v.1	Restrictions		SO2 33.5 146.5		Y	C	
V.C.1.v.1	Restrictions		A year is defined as any consecutive 12-month period.				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.C.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR Part 63.	Record Review	Y	C	
V.C.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer.	Record Review	Y	C	
V.C.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;	Record Review	Y	C	
V.C.3.c.4	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Record Review	Y	C	
V.C.3.d	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR Part 63, for each day of operations on which a valid emissions value (or set of values) is obtained:	Administrative Requirement	Y	C	
V.C.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A of 40 CFR 63;	Record Review	Y	C	
V.C.3.e	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.C.3.f	Monitoring	§2103.12.h.6.; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.C.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.C.3.d above or determinations under Condition IV.27 above.	Administrative Requirement	Y	C	
V.C.3.g	Monitoring	§2103.12.h.6.; §63.309(h)	For a flare installed to meet the requirements of Conditions V.C.1.d above and V.C.1.e above:	Administrative Requirement	Y	C	
V.C.3.g.1	Monitoring		Compliance with the provisions in Condition V.C.1.h above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Direct Measurement and Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.3.g.2	Monitoring		Compliance with the provisions in Condition V.C.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C	
V.C.3.h	Monitoring	§2103.12.h.6; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.C.3.i	Monitoring	§2103.12.h.6.; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.C.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.C.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.C.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.C.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.C.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.C.3.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.C.3.j	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in §63.7331(i).	Process Knowledge, Physical Inspection and Record Review	Y	C	
V.C.3.k	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(c)	The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan .	Record Review	Y	C	
V.C.3.l	Monitoring	§2103.12.h.6.; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Record Review	Y	C	
V.C.3.m	Monitoring	§2103.12.h.6.; §2103.12.i; §63.7331(j)	For coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.C.3.m.1) through V.C.3.m.5) below:	Administrative Requirement	Y	C	
V.C.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Physical Inspection & Record Review	Y	C	
V.C.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.2.a	Testing	§2103.12.h.1; §2108.02.e; Second Consent Decree 6/24/93	The permittee shall have PM, PM2.5 and PM10 particulate emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every four (4) years to demonstrate compliance with the mass emission standard in Condition V.C.1.q above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.C.2.b	Testing	§2108.02.b, §2108.02.e.	The permittee shall have sulfur dioxide (SO2) emissions stack tests performed on each combustion stack of Coke Batteries 13, 14 and 15 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Condition V.C.1.v above. SO2 emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department for approval at least 45 days prior to the test dates.	Record Review	Y	C	
V.C.2.c	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions testing and evaluations for NOx on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify NOx emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NOx. Testing for NOx shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.d	Testing	§2103.12.h.1, §2108.02.(b), §2108.02.(e)	The permittee shall perform emissions tests and evaluations for CO and VOC on each combustion stack of Coke Batteries 13, 14 and 15 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.C.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.C.3.a	Monitoring		The permittee shall:	Administrative Requirement			
V.C.3.a.1	Monitoring	§2103.12.h.6; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.3.a.2	Monitoring	§2103.12.h.6.; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair;	Record Review	Y	C	
V.C.3.a.3	Monitoring	§2103.12.h.6.; §2103.12.i; §63.308(c)	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.C.3.a.4	Monitoring	§2103.12.h.6.; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	
V.C.3.b	Monitoring	§2103.12.h.6.; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Conditions V.C.3.c below through V.C.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Administrative Requirement	Y	C	
V.C.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	
V.C.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.C.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Record Review	Y	C	
V.C.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.C.3.b above.	Record Review	Y	C	
V.C.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at is option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Record Review	Y	C	
V.C.3.c	Monitoring	§2103.12.h.6.; §2103.12.i; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements:	Administrative	Y	C	
V.C.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A of 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS.	Record Review	Y	C	
V.C.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Record Review	Y	C	
V.C.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in V.C.2.e above using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.C.3.n	Monitoring	§2103.12.h.6.; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Process Knowledge & Record Review	Y	C	
V.C.3.o	Monitoring	§2103.12.h.6.; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	
V.C.3.p	Monitoring	§2103.12.h.6.; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.C.1.t. above by meeting the requirements in Conditions V.C.3.p.1) and V.C.3.p.2) below:	Administrative Requirement	Y	C	
V.C.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.C.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.C.3.m above	Record Review	Y	C	
V.C.4.a	Record Keeping	§2103.12.h.6; §63.311(f); §2103.12.j	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under V.C.6.c below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.C.4.a.1	Record Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.4.a.2	Record Keeping		If the permittee is required under Condition IV.27.c to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that <u>emission point during the implementation period</u> :	Administrative Requirement	Y	C	
V.C.4.a.2.a	Record Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training <u>required under Condition IV.27.b.1) above</u> :	Record Review	Y	C	
V.C.4.a.2.b	Record Keeping		The records required to be maintained by the plan provisions implementing <u>Condition IV.27.b.6) above</u> :	Record Review	Y	C	
V.C.4.a.2.c	Record Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required under Conditions <u>IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above</u> ; and	Record Review	Y	C	
V.C.4.a.2.d	Record Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) <u>above</u> ; and	Record Review	Y	C	
V.C.4.a.3	Record Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.C.1.C through V.C.1.d <u>above</u> .	Record Review	Y	C	
V.C.4.a.4	Record Keeping		Records specified in Condition V.C.6.g below regarding the basis of each <u>malfunction notification</u> .	Record Review	Y	C	
V.C.4.b	Record Keeping	§2103.12.j.; §63.7342(a)	The permittee shall keep the following records:	Administrative Requirement	Y	C	
V.C.4.b.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the <u>requirements in §63.10(b)(2)(xiv)</u> .	Record Review	Y	C	
V.C.4.b.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and <u>malfunction</u> .	Record Review	Y	C	
V.C.4.b.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in <u>§63.10(b)(2)(viii)</u> .	Record Review	Y	C	
V.C.4.c	Record Keeping	§2103.12.h.6.; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.C.4.c.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C	
V.C.4.c.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in <u>§63.6(h)(7)(i) and (ii)</u> .	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.C.4.c.3	Record Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in <u>§63.8(d)(3)</u> .	Record Review	Y	C	
V.C.4.c.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or <u>malfunction or during another period</u> .	Record Review	Y	C	
V.C.4.d	Record Keeping	[§2103.12.j.; §63.7342©	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Administrative Requirement	Y	C	
V.C.4.e	Record Keeping	§2103.12.h.6.; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective <u>action, report, or record</u> .	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.4.f	Record Keeping	§2103.12.h.6; §63.7343©	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	
V.C.4.g	Record Keeping	§63.7335(a)	The permittee must demonstrate continuous compliance with the operation and maintenance plans required in V.C.3.i above by adhering at all times to the plan requirements and recording all information needed to document conformance.	Record Review	Y	C	
V.C.4.h	Record Keeping	§2103.12.j.; §63.7335(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in in V.C.3.i or §63.7300(b) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.C.4.i	Record Keeping	§2103.12.h.6.; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.C.6.k by maintaining records that document conformance with requirements in V.C.6.k.1) through V.C.6.k.5).	Record Review	Y	C	
V.C.5.a	Reporting	§2103.12.h.6; §2103.12.k; §2109.03 and Enforcement Order 202. E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Administrative Requirement	Y	C	
V.C.5.a.1.a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.C.5.a.1.b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.C.5.a.1.c	Reporting		Total coke oven gas produced; in MMCF;	Record Review	Y	C	
V.C.5.a.1.d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.C.5.a.1.e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.C.5.a.1.f	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.C.5.a.1.g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.C.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.C.5.a.2.a	Reporting		The batteries affected;	Record Review	Y	C	
V.C.5.a.2.b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.C.5.a.2.c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.C.5.a.2.d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.C.5.a.2.f	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.C.5.b	Reporting	Enforcement Order No. 161, July 23, 1990	No later than twenty (20) days after the end of each month, a written report of a summary of the following for each combustion stack continuous opacity monitoring system during each such month shall be submitted to the Department:	Administrative Requirement	Y	C	
V.C.5.b.1	Reporting		The monthly average percent availability (on-line time), based on total minutes of coke operations and total minutes available;	Record Review	Y	C	
V.C.5.b.2	Reporting		The daily percentage available;	Record Review	Y	C	
V.C.5.b.3	Reporting		The number of days on which there was less than 100% availability;	Record Review	Y	C	
V.C.5.b.4	Reporting		For each of the coke oven combustion stack visible emission standards set forth in §2105.21.f.3. & f.4. , the total number of hours for the month, and the number of hours each day, during which an exceedance of such standard was measured by such continuous opacity monitor;	Record Review	Y	C	
V.C.5.b.5	Reporting		The number and nature of tests, calibrations, and any other quality assurance activities performed; and	Record Review	Y	C	
V.C.5.b.6	Reporting		The dates, times and results of all such activities.	Record Review	Y	C	
V.C.5.c	Reporting	§2103.12.k.; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	
V.C.5.c.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in V.C.5.d below.	Record Review	Y	C	
V.C.5.c.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in V.C.6.f below; and	Record Review	Y	C	
V.C.5.c.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	
V.C.5.d	Reporting	§2103.12.h.6.; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR 302.6	Record Review	Y	C	
V.C.5.e	Reporting	§2103.12.h.6.; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Administrative Requirement	Y	C	
V.C.5.e.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.e.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.5.f	Reporting	§2103.12.k.; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Administrative Requirement	Y	C	
V.C.5.f.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.5.f.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.5.g	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011 V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 13-15 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	
V.C.5.h	Reporting	Consent Order and Agreement (COA) Third Amendment, July 6, 2011, Condition V.a.8	The permittee shall submit to the Department a Semi-Annual Deviation Report for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 13-15.	Record Review	Y	C	
V.C.5.i	Reporting	§2103.12.h.6.; §63.7336(a)	The permittee shall report each instance in which you did not meet each emission limitation in 40 CFR Part 63, Subpart CCCCC that applies to you. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in this 40 CFR Part 63, Subpart CCCCC that applies to you. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in this 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.C.5.m through V.C.5.q below.	Record Review	Y	C	
V.C.5.j	Reporting	§2103.12.h.6.; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.C.5.j.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.C.5.j.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.C.5.k	Reporting	§2103.12.h.6.; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.5.1	Reporting	§2103.12.h.6; §63.7340(d)	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Record Review	Y	C	
V.C.5.m	Reporting	§2103.12.h.6.; §63.7341(a)	Unless the Department has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources according to the requirements in V.C.5.m.1) through V.C.5.m.2) below.	Record Review	Y	C	
V.C.5.m.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	
V.C.5.m.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.C.5.n	Reporting	§2103.12.h.6; §63.7341(b)	Each quarterly compliance report must provide information on compliance with the emission limitations for battery stacks in V.C.1.t above. The reports must include the information in Conditions V.C.5.o.1) through V.C.5.o.3) below, and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	
V.C.5.o	Reporting	§2103.12.h.6; §63.7341(c)	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information V.C.5.o.1) through V.C.5.o.3), and as applicable, Conditions V.C.5.o.4) through V.C.5.o.8) below.	Record Review	Y	C	
V.C.5.o.1	Reporting		Company name and address.	Record Review	Y	C	
V.C.5.o.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.C.5.o.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.C.5.o.4	Reporting		If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.C.5.o.5	Reporting		If there were no deviations from the continuous compliance requirements in V.C.3.p for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Record Review	Y	C	
V.C.5.o.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.o.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.C.5.o.4), V.C.5.o.7)a) and V.C.5.o.7)b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.C.5.o.7.a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.C.5.o.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.C.5.o.8	Reporting		For each deviation from an emission limitation occurring at an affected source where you are using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, you must include the information in Conditions V.C.5.o.4), V.C.5.o.8)a) through V.C.5.o.8)l) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.C.5.o.8.a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.C.5.o.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.C.5.o.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.C.5.o.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.C.5.o.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.C.5.o.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.C.5.o.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.C.5.o.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.C.5.o.8.i	Reporting		A brief description of the process units.	Record Review	Y	C	
V.C.5.o.8.j	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.C.5.o.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.5.o.8.1	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.C.5.p	Reporting	§2103.12.k; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.C.5.q	Reporting	§2103.12.k; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Record Review	Y	C	
V.C.6.a	Work Practice Standards		Coke Oven Batteries 13, 14 and 15 shall be properly maintained and operated at all times according to good engineering and air pollution control practices . [RACT Plan 234]	Engineering Judgement & Record Review	Y	C	
V.C.6.b	Work Practice Standards		The permittee shall comply with the provisions of applicable workpractice requirements in Site level Condition IV.27 IV.27.c above. [§2103.12.h.6.; §63.306(a)]	Record Review	Y	C	
V.C.6.c	Work Practice Standards		The permittee shall develop and implement according to Condition V.C.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan. [§2103.12.h.6.; §63.310(b)]	Record Review	Y	C	
V.C.6.d	Work Practice Standards		During a period of startup, shutdown, or malfunction the permittee shall: [§2103.12.h.6.; §63.310(c)]	Administrative Requirement	Y	C	
V.C.6.d.1	Work Practice Standards		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Record Review	Y	C	
V.C.6.d.2	Work Practice Standards		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.C.6.e	Work Practice Standards		In order for the provisions of Condition V.C.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee: [§2103.12.h.6.; §63.310(d)]	Administrative Requirement	Y	C	
V.C.6.e.1	Work Practice Standards		If practicable, to the certified observer if the observer is at the facility during the occurrence; or		Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.C.6.e.2	Work Practice Standards		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.C.6.e.1) above was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.C.6.f	Work Practice Standards		Within 14 days of the notification made under Condition V.C.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that: [§2103.12.h.6.; §63.310(e)]	Administrative Requirement	Y	C	
V.C.6.f.1	Work Practice Standards		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.C.6.f.2	Work Practice Standards		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.C.6.g	Work Practice Standards		The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.C.6.e above. [§2103.12.h.6.; §63.310(f)]	Record Review	Y	C	
V.C.6.h	Work Practice Standards		To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements §63.310 and is made available for inspection at reasonable times when requested by the Department. [§2103.12.h.6.; §63.310(g)]	Record Review	Y	C	
V.C.6.i	Work Practice Standards		The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan: [§2103.12.h.6.; §63.310(h)]	Administrative Requirement	Y	C	
V.C.6.i.1	Work Practice Standards		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	
V.C.6.i.2	Work Practice Standards		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.C.6.i.3	Work Practice Standards		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.C.6.j	Work Practice Standards		If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not: [§2103.12.h.6.; §63.310(i)]	Administrative Requirement	Y	C	
V.C.6.j.1	Work Practice Standards		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Record Review	Y	C	
V.C.6.j.2	Work Practice Standards		Be used in any compliance determination under §63.309; or	Record Review	Y	C	
V.C.6.j.3	Work Practice Standards		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Conditions IV.27 above, regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Conditions IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.C.6.k	Work Practice Standards		The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to: [§2103.12.h.6; §63.7294(a)]	Record Review	Y	C	
V.C.6.k.1	Work Practice Standards		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	
V.C.6.k.2	Work Practice Standards		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.C.6.k.3	Work Practice Standards		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.C.6.k.4	Work Practice Standards		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.C.6.k.5	Work Practice Standards		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.C.6.l	Work Practice Standards		As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.C.6.k above. [§2103.12.h.6; §63.7294(b)]	Record Review	Y	C	
V.C.6.m	Work Practice Standards		The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2. [§2103.12.h.6; §63.7310(a)]	Record Review	Y	C	
V.C.7	Work Practice Standards		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.1.a	Restrictions	[§2105.21.e, Installation Permit 0052-I008]	The permittee shall not operate, or allow to be operated, Battery 13 or Battery 14 or Battery 15 coke ovens unless there is installed on each battery a pushing emission control device which is designed to reduce fugitive emissions from pushing to the minimum attainable through the use of BACT, nor shall the permittee operate, or allow to be operated Battery 13 or Battery 14 or Battery 15 coke ovens in such manner that:	Engineering Judgement	Y	C	
V.D.1.a.1	Restrictions	(§2105.21.e.1, Installation Permit 0052-I008)	At any time, the particulate mass emission rate from the pushing emission control system device, for Batteries 13, 14, & 15 exceeds a rate determined by an outlet concentration of 0.040 pounds per ton of coke:	Direct Measurement/Records Review	Y	C	
V.D.1.a.2	Restrictions	[§2105.21.e.4, Installation Permit 0052-I008]	Fugitive pushing emissions or emissions from the pushing emission control system device outlet equal or exceed an opacity of 20% at any time, except if the Department determines in writing, upon written application from the person responsible for the coke ovens setting forth all information needed to make such determination, that such emissions are of only minor significance with respect to causing air pollution and do not prevent or interfere with the attainment or maintenance of any ambient air quality standard (any such determination shall be submitted as a proposed revision to Allegheny County's portion of the SIP).	Physical Inspection/Procedures	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.1.b	Restrictions	[§2105.21.e.6]	The permittee shall not operate, or allow to be operated at any time, coke oven batteries in such manner that the hot coke fails to be held under the hood of the pushing emission control device for at least 67 seconds immediately after the pusher ram begins to move and the damper to the PEC device is opened or for at least 15 seconds immediately following the fall of the last of the coke into the hot car, whichever is longer. This provision shall only be effective during the period from 30 days following the issuance of written notice by the Department to the permittee of such battery that EPA has required the implementation of the contingency measures under the portion of the PM-10 SIP for the Liberty Borough/Clairton area, until issuance of a written notice by the Department that such measures are no longer required.	Process Knowledge/Records Review	Y	C	
V.D.1.c	Restrictions	[§2105.03, Installation Permit 0052-I008]	The permittee shall not operate, or allow to be operated Battery 13 or Battery 14 or Battery 15, unless the Battery 13, 14, & 15 PEC System baghouse is properly installed, operated and maintained according to the following conditions:	Engineering Judgement	Y	C	
V.D.1.c.1	Restrictions		Emissions due to the pushing of Battery 13, 14, & 15 coke ovens shall be vented through the PEC System baghouse dust collector.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.1.c.2	Restrictions		The baghouse shall be equipped with automatic cleaning controls and instrumentation that shall continuously measure the differential pressure drop across the baghouse to within 5.0% of the measuring span of the device.	Engineering Judgement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.D.1.c.3	Restrictions		The normal operating differential pressure drop range across each baghouse module shall be maintained below 10 inches w.c. averaged over the push.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.1.c.4	Restrictions		When the pressure drop goes beyond the range specified in Condition V.D.1.c.3) above, cleaning, maintenance and other corrective actions shall be conducted, as necessary, to return the pressure drop to the specified range.	Process Knowledge	Y	C	
V.D.1.d	Restrictions	[§2103.12.h.6; §63.7290(a)]	The permittee shall not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from a coke oven battery that exceed 0.02 pound per ton (lb/ton) of coke.	Direct Measurement/ Records Review	Y	C	
V.D.1.e	Restrictions	[§2103.12.h.6; §63.7290(b)(3)]	For each PEC System the permittee shall:	Administrative Requirement	Y	C	
V.D.1.e.1	Restrictions		Maintain the minimum daily average fan motor amperes at 210 or above the minimum level established during the most recent performance test; or	Process Knowledge/ Records Review	Y	C	
V.D.1.e.2	Restrictions		Maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test.	Process Knowledge/ Records Review	NA	NA	
V.D.1.f	Restrictions	[§2103.12.h.6; §63.7333 (a)]	For each control device applied to pushing emissions and subject to the emission limit in V.D.1.d above, the permittee shall demonstrate continuous compliance by meeting the requirements in Conditions V.D.1.f.1) and V.D.1.f.2) below:	Engineering Judgement	Y	C	
V.D.1.f.1	Restrictions		Maintaining emissions of particulate matter at or below 0.02 pound per ton (lb/ton) of coke; and	Direct Measurement/ Records Review	Y	C	
V.D.1.f.2	Restrictions		Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than once every two years.	Records Review	Y	C	
V.D.1.g	Restrictions	[§2105.03 and Installation Permit 0052-I008]	Battery 13, 14 and 15 PEC System baghouse shall not exceed the limits listed in Table V-D-1 at any time:	Direct Measurement/ Emission Calcs	Y	C	
V.D.1.g	Restrictions		POLLUTANT LB/TON-COKE HOURLY(lb/hr)				
V.D.1.g	Restrictions		ANNUAL(ton/yr)				
V.D.1.g	Restrictions		PM 0.040 5.80 25.40		Y	C	
V.D.1.g	Restrictions		PM-10 0.040 5.80 25.40		Y	C	
V.D.1.g	Restrictions		A year is defined as any consecutive 12-month period.		Y	C	
V.D.1.h	Restrictions	[§2013.12(h)]	Batteries 13, 14 & 15 compliance with the Coke MACT emission limit in Condition V.D.1.d above, assures compliance with the PM/PM10 emission limit in Condition V.D.1.g above.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.2.a	Testing	[§2108.02, Installation Permit 0052-1008 and §63.7321]	The permittee shall have baghouse emission stack tests for PM, PM10 and PM2.5 conducted at least once every two years using EPA Methods No.1 through No.5, 201A and D50202 (or other method specified by the Department) and performed according to §2108.02 of Article XXI.	Records Review	Y	C	
V.D.2.b	Testing	[§2108.02, Installation Permit 0052-1008]	Visible emissions observations of the baghouse stack exhaust and fugitive pushing emissions shall be conducted at least once every two years, as specified in Section 109 of the Department's source testing manual, and be done simultaneously with the baghouse stack tests.	Records Review	Y	C	
V.D.2.c	Testing	[§2103.12.h.6; §63.7322(a)]	The permittee shall conduct each performance test according to the requirements in Condition V.D.2.d below.	Records Review	Y	C	
V.D.2.d	Testing	[§2103.12.h.6; §63.7322(b)]	To determine compliance with the process weighted mass rate of particulate matter (lb/ton of coke) in Condition V.D.1.d above use the following test methods and procedures:	Engineering Judgement	Y	C	
V.D.2.d.1	Testing	[§2103.12.h.6; §63.7322(b)(1)]	Determine the concentration of particulate matter according to the following test methods in Appendix A to 40 CFR Part 60.	Records Review	Y	C	
V.D.2.d.1.a	Testing		Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at the outlet of the control device and prior to any releases to the atmosphere.	Records Review	Y	C	
V.D.2.d.1.b	Testing		Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.	Records Review	Y	C	
V.D.2.d.1.c	Testing		Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.	Records Review	Y	C	
V.D.2.d.1.d	Testing		Method 4 to determine the moisture content of the stack gas.	Records Review	Y	C	
V.D.2.d.1.e	Testing		Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.	Records Review	Y	C	
V.D.2.d.2	Testing	[§2103.12.h.6; §63.7322(b)(2)]	During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 50 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (i.e., sample for an integral number of pushes).	Records Review	Y	C	
V.D.2.d.3	Testing	[§2103.12.h.6; §63.7322(b)(3)]	Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.2.d.4	Testing	[§2103.12.h.6; §63.7322(b)(4)]	4) Compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section as follows:	Records Review	Y	C	
			Where: $E_p = \frac{C \times Q \times T}{P \times K}$				
			E_p = Process weighted mass emissions of particulate matter, lb/ton;				
			C = Concentration of particulate matter, gr/dscf;				
			Q = Volumetric flow rate of stack gas, dscf/hr;				
			T = Total time during a run that a sample is withdrawn from the stack during pushing, hr;				
			P = Total amount of coke pushed during the test run, tons; and K = Conversion factor, 7,000 gr/lb.				
V.D.2.e	Testing	[§2103.12.h.6; §63.7323(c)]	For each capture system applied to pushing emissions, the permittee shall establish a site-specific operating limit for the fan motor amperes or volumetric flow rate according to the procedures in Condition V.D.2.e.1) or V.D.2.e.2) below:	Engineering Judgement	Y	C	
V.D.2.e.1	Testing		If you elect the operating limit in V.D.1.e.1) above for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.	Records Review	Y	C	
V.D.2.e.2	Testing		If you elect the operating limit in V.D.1.e.2) above for volumetric flow rate, measure and record the total volumetric flow rate at the inlet of the control device during each push sampled for each particulate matter test run. Your operating limit is the lowest volumetric flow rate recorded during any of the three runs that meet the emission limit.	Records Review	NA		
V.D.2.f	Testing	[§2103.12.h.6; §63.7323(e)]	The permittee may change the operating limit for a capture system if the requirements in Conditions V.D.2.f.(1) through (3) below are met:	Engineering Judgement	Y	C	
V.D.2.f.1	Testing		Submit a written notification to the Department of your request to conduct a new performance test to revise the operating limit.	Report Submission	Y	C	
V.D.2.f.2	Testing		Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).	Records Review	Y	C	
V.D.2.f.3	Testing		Establish revised operating limits according to the applicable procedures in Condition V.D.2.e above.	Records Review	Y	C	
V.D.2.g	Testing	(§2103.12.h.1)	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.3.a	Monitoring	[§2103.12.h.1, §2103.12.i and Installation Permit 0052-I008]	The permittee shall continuously monitor and record the differential pressure drop across each baghouse module.	Direct Measurement	Y	C	
V.D.3.b	Monitoring	[§2102.04.e; Installation Permit 0052-I008]	The permittee shall inspect the Battery 13, 14 and 15 PEC System baghouse, weekly, to insure compliance with Condition V.D.1.c above.	Records Review	Y	C	
V.D.3.c	Monitoring	[§2103.12.i; §63.7291(a)]	The permittee shall meet each of the following requirements in paragraphs V.D.3.c.1) below for each coke oven battery.	Administrative Requirement	Y	C	
V.D.3.c.1	Monitoring		Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).	Physical Inspection/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.3.c.2	Monitoring		Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day.	Physical Inspection/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.3.c.3	Monitoring		Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day. Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day.	Records Review	Y	C	
V.D.3.c.4	Monitoring		If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater: $X = 0.55 * Y \text{ (Eq. 1)}$ Where: X = Number of calendar days allowed to complete corrective action or increase coking time; and	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
					Y	C	
					Y	C	
					Y	C	
					Y	C	
					Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
			Y = Current coking time for the oven, hours.		Y	C	
					Y	C	
			For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.		Y	C	
V.D.3.c.5	Monitoring		The permittee shall demonstrate that:	Administrative Requirement	Y	C	
V.D.3.c.5.a	Monitoring		The corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in condition V.D.3.c.4) above, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in condition V.D.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in condition V.D.3.c.4) above.	Physical Inspection/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.3.c.5.b	Monitoring		After implementing any additional corrective action and/or increased coking time required under condition V.D.3.c.5)a) above or V.D.3.c.6)b) below, you must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in condition V.D.3.c.4) above, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in condition V.D.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and tive action(s) and/or increased coking time. paragraph V.B.3.c.	Physical Inspection/Records Review	Y	C	
V.D.3.c.5.c	Monitoring		If the corrective action and/or increased coking time was unsuccessful as described in condition V.D.3.c.5)b) above, the permittee must repeat the procedures in condition V.D.3.c.5)b) above until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under condition V.D.3.c.5)b) above.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.3.c.6	Monitoring		If at any time the permittee places an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using one of the following procedures:	Physical Inspection/Records Review	Y	C	
V.D.3.c.6.a	Monitoring		To qualify for a decreased coking time for an oven placed on increased coking time in accordance with condition V.D.3.c.4) or V.D.3.c.5) above, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.D.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement action(s) and/or increased coking time. specified by the applicable emission limitations of this permit. The request shall be deemed approved unless and until such	Physical Inspection/Records Review	Y	C	
V.D.3.c.6.b	Monitoring		If the attempt to qualify for decreased coking time was unsuccessful as described in condition V.D.3.c.6)a) above, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.D.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. specified by the applicable emission limitations of this permit. the repairs. The request shall be deemed approved unless and until such time as the	Physical Inspection/Records Review	Y	C	
V.D.3.c.6.c	Monitoring		The permittee must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in condition V.D.3.c.6)b) above	Administrative Requirement	Y	C	
V.D.3.d	Monitoring	[§2103.12.h.6; §63.7291(b)]	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standards in Condition V.D.3.c above.	Administrative Requirement	Y	C	
V.D.3.e	Monitoring	[§2103.12.h.6; §63.7300(c)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from coke battery(s). Each plan must address at a minimum the following elements.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.D.3.e.1	Monitoring		Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered.	Physical Inspection/ Records Review	Y	C	
			The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the approval process.		Y	C	
V.D.3.e.2	Monitoring		Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.	Records Review	Y	C	
V.D.3.e.3	Monitoring		Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions may include, but are not limited to:	Process Knowledge	Y	C	
V.D.3.e.3.a	Monitoring		Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.	Physical Inspection/Procedures	Y	C	
V.D.3.e.3.b	Monitoring		Sealing off defective bags or filter media.	Process Knowledge	Y	C	
V.D.3.e.3.c	Monitoring		Replacing defective bags or filter media or otherwise repairing the control device.	Process Knowledge	Y	C	
V.D.3.e.3.d	Monitoring		Sealing off a defective baghouse compartment.	Process Knowledge	Y	C	
V.D.3.e.3.e	Monitoring		Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.	Process Knowledge	Y	C	
V.D.3.e.3.f	Monitoring		Shutting down the process producing the particulate emissions.	Process Knowledge	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.3.f	Monitoring	[§2103.12.h.6; §63.7330(a)]	For the PEC system baghouse applied to pushing emissions from a coke oven battery, the permittee shall at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in V.D.3.g below and conduct inspections at their specified frequency according to the following requirements:	Direct Measurement/ Records Review	Y	C	
V.D.3.f.1	Monitoring		Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;	Direct Measurement/ Records Review	Y	C	
V.D.3.f.2	Monitoring		Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;	Physical Inspection/ Procedures	Y	C	
V.D.3.f.3	Monitoring		Check the compressed air supply for pulse-jet baghouses each day;	Physical Inspection/ Procedures	Y	C	
V.D.3.f.4	Monitoring		Monitor cleaning cycles to ensure proper operation using an appropriate methodology;	Physical Inspection/ Procedures	Y	C	
V.D.3.f.5	Monitoring		Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;	Physical Inspection/ Procedures	Y	C	
V.D.3.f.6	Monitoring		Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (knead or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;	Physical Inspection/ Procedures	Y	C	
V.D.3.f.7	Monitoring		Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and	Physical Inspection/ Procedures	Y	C	
V.D.3.f.8	Monitoring		Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	Physical Inspection/ Procedures	Y	C	
V.D.3.g	Monitoring	[§2103.12.h.6; §63.7331(a)]	The permittee shall install, operate, and maintain a bag leak detection system on the PEC system baghouse according to the following requirements:	Engineering Judgement	Y	C	
V.D.3.g.1	Monitoring		The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;	Design Parameter	Y	C	
V.D.3.g.2	Monitoring		The system must provide output of relative changes in particulate matter loadings;	Design Parameter	Y	C	
V.D.3.g.3	Monitoring		The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;	Design Parameter	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.D.3.g.4	Monitoring		Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;	Engineering Judgement	Y	C	
V.D.3.g.5	Monitoring		To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;	Engineering Judgement	Y	C	
V.D.3.g.6	Monitoring		Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and	Administrative Requirement	Y	C	
V.D.3.g.7	Monitoring		Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.	Engineering Judgement	Y	C	
V.D.3.h	Monitoring	[\§2103.12.h.6; §2103.12.i; §63.7331(b)]	For each CPMS required in V.D.3.m below, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in Conditions V.D.3.h.1) through V.D.3.h.6) below:	Administrative Requirement	Y	C	
V.D.3.h.1	Monitoring		Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);	Direct Measurement/ Records Review	Y	C	
V.D.3.h.2	Monitoring		Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;	Design Parameter	Y	C	
V.D.3.h.3	Monitoring		Performance evaluation procedures and acceptance criteria (e.g., calibrations);	Engineering Judgement	Y	C	
V.D.3.h.4	Monitoring		Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8);	Engineering Judgement	Y	C	
V.D.3.h.5	Monitoring		Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and	Engineering Judgement	Y	C	
V.D.3.h.6	Monitoring		Ongoing recordkeeping and reporting procedures in accordance the general requirements of §63.10(c), (e)(1), and (e)(2)(i).	Administrative Requirement	Y	C	
V.D.3.i	Monitoring	[\§2103.12.h.6; §63.7331(c)]	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Records Review	Y	C	
V.D.3.j	Monitoring	[\§2103.12.h.6; §2103.12.i; §63.7331(d)]	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Administrative Requirement	Y	C	
V.D.3.k	Monitoring	§2103.12.i [\§2103.12.h.6; §63.7331(h)]	If the permittee elects the operating limit in V.D.1.e.1) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.	Direct Measurement/ Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.3.l	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7331(g)]	If the permittee elects the operating limit in V.D.1.e.2) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the total volumetric flow rate at the inlet of the control device.	Direct Measurement/ Records Review	Y	C	
V.D.3.m	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7330(d)]	For each capture system applied to pushing emissions, the permittee shall at all times monitor the fan motor amperes according to the requirements in Condition V.D.3.k or the volumetric flow rate according to the requirements in Condition V.D.3.l above.	Direct Measurement/ Records Review	Y	C	
V.D.3.n	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7332(a)]	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Direct Measurement/ Records Review	Y	C	
V.D.3.o	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7332(b)]	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Records Review	Y	C	
V.D.3.p	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7333(d)]	For each capture system applied to pushing emissions and subject to the operating limit in Condition V.D.1.e.1) above, the permittee shall demonstrate continuous compliance by meeting the requirements in Condition V.D.3.p.1) or V.D.3.p.2) below:	Administrative Requirement	Y	C	
V.D.3.p.1	Monitoring		If the permittee elects the operating limit for fan motor amperes in V.D.1.e.1) above:	Administrative Requirement	Y	C	
V.D.3.p.1.a	Monitoring		Maintaining the daily average fan motor amperes at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/ Records Review	Y	C	
V.D.3.p.1.b	Monitoring		Checking the fan motor amperes at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/ Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.D.3.p.2	Monitoring		If the permittee elects the operating limit for volumetric flow rate in V.D.1.e.2) above:	Administrative Requirement	Y	C	
V.D.3.p.2.a	Monitoring		Maintaining the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/ Records Review	Y	C	

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				Method	Y/ N	Type C/I	
V.D.3.p.2.b	Monitoring		Checking the volumetric flow rate at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/ Records Review	Y	C	
V.D.3.q	Monitoring	§2103.12.h.6; §2103.12.i; §63.7334(a)]	The permittee shall demonstrate continuous compliance with the work practice standards for fugitive pushing emissions according to the following requirements:	Administrative Requirement	Y	C	
V.D.3.q.1	Monitoring		Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by Condition V.D.3.c.2) above. Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to Condition V.D.3.c.3) above.	Physical Inspection/Records Review	Y	C	
V.D.3.q.2	Monitoring		Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in paragraphs V.D.3.q.1) through V.D.3.q.8).	Physical Inspection/ Records Review	Y	C	
V.D.3.q.3	Monitoring		Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in Appendix A to 40 CFR Part 60 using a Method 9 certified observer unless you have an approved alternative procedure under V.D.3.q.7) below.	Physical Inspection/ Records Review	Y	C	
V.D.3.q.4	Monitoring		Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (Appendix A to 40 CFR Part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii) for obtaining at least 3 hours of observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.	Physical Inspection/ Records Review	Y	C	
V.D.3.q.5	Monitoring		If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (e.g., as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.	Physical Inspection	Y	C	
V.D.3.q.6	Monitoring		Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.	Physical Inspection	Y	C	
V.D.3.q.6.a	Monitoring		Observe fugitive pushing emissions from a position at least 10 meters from the quench car that provides an unobstructed view and avoids interferences from the topside of the battery. This may require the observer to be positioned at an angle to the quench car rather than perpendicular to it. Typical interferences to avoid include emissions from open standpipes and charging. Observe the opacity of emissions above the battery top with the sky as the background where possible. Record the oven number of any push not observed because of obstructions or interferences.	Physical Inspection	Y	C	

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				Method	Y/N	Type C/I	
V.D.3.q.6.b	Monitoring		You may reposition after the push to observe emissions during travel if necessary.	Administrative Requirement	Y	C	
V.D.3.q.7	Monitoring		If it is infeasible to implement the procedures in Conditions V.D.3.q.1) through V.D.3.q.6) above for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to the Department for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in Conditions V.D.3.q.1) through V.D.3.q.6) above, identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.	Administrative Requirement	Y	C	
V.D.3.q.8	Monitoring		For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with Condition V.D.3.c above. Maintain records documenting conformance with Condition V.D.3.c above.	Process Knowledge/Records Review	Y	C	
V.D.3.r	Monitoring	[§2103.12.h.6; §2103.12.i; §63.7335(c)]	To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in V.D.3.g above, the permittee shall inspect and maintain each baghouse according to the requirements in Conditions V.D.3.g.1) through V.D.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in Condition V.D.3.g.6) above you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/Records Review	Y	C	
V.D.4.a	Record Keeping	[§2103.12.j; §2102.04.b.6; Installation Permit 0052-I008]	The results of the inspections required by Condition V.D.3.b above shall be recorded weekly along with the differential pressure drop across the baghouse.	Records Review	Y	C	
V.D.4.b	Record Keeping	[□§2103.12.j; §2102.04.b.6; Installation Permit 0052-I008]	Episodes of non-compliance with Conditions V.D.1.a through V.D.1.g and V.D.3.b above and corrective actions taken shall be recorded upon occurrence.	Records Review	Y	C	
V.D.4.c	Record Keeping	[□§2103.12.j; §2102.04.b.6; Installation Permit 0052-I008]	The permittee shall keep records of each baghouse maintenance inspection and repair, replacement or other corrective action.	Records Review	Y	C	
V.D.4.d	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(a)]	The permittee shall keep the following records:	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.D.4.d.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Records Review	Y	C	
V.D.4.d.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Records Review	Y	C	
V.D.4.d.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Records Review	Y	C	
V.D.4.e	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(b)]	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.D.4.e.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Records Review	Y	C	
V.D.4.e.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Records Review	Y	C	
V.D.4.e.3	Record Keeping		Previous (that is, superceded) versions of the performance evaluation plan as required in §63.8(d)(3).	Records Review	Y	C	
V.D.4.e.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.D.4.f	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(c)]	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Records Review	Y	C	
V.D.4.g	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7342(d)]	The permittee shall keep the records required in Conditions V.D.3.r above and V.D.4.l through V.D.4.n below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Records Review	Y	C	
V.D.4.h	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(a)]	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Records Review	Y	C	
V.D.4.i	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(b)]	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Records Review	Y	C	
V.D.4.j	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7343(c)]	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Records Review	Y	C	
V.D.4.k	Record Keeping	[§2103.12.j; §2103.12.h.6; §63.7335(b)]	For each coke oven battery with a capture system or control device applied to pushing emissions, the permittee shall demonstrate continuous compliance with the operation and maintenance requirements in Condition V.D.3.e above by meeting the following requirements:	Records Review	Y	C	
V.D.4.k.1	Record Keeping		Making monthly inspections of capture systems according to Condition V.D.3.e.1) above and recording all information needed to document conformance with these requirements;	Physical Inspection/ Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.4.k.2	Record Keeping		Performing preventative maintenance for each control device according to Condition V.D.3.e.2) above and recording all information needed to document conformance with these requirements; and	Process Knowledge/ Records Review	Y	C	
V.D.4.k.3	Record Keeping		Initiating and completing corrective action for a bag leak detection system alarm according to Condition V.D.3.e.3) above and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.	Process Knowledge/ Records Review	Y	C	
V.D.4.l	Record Keeping	[§2103.12.j; 63.7335(c)]	The permittee shall inspect and maintain the pushing emission control baghouse as required in V.D.3.g.1) through V.D.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in V.D.3.g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/ Records Review	Y	C	
V.D.4.m	Record Keeping	[§2103.12.j; 63.7335(d)]	The permittee shall maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCC.	Records Review	Y	C	
V.D.4.n	Record Keeping	[□§2103.12.j; §2102.04.e; Installation Permit 0052-I008]	All records shall be retained by the facility for at least five (5) years. These records shall be made available to the Department upon request for inspection and/or copying.	Administrative Requirement	Y	C	
V.D.5.a	Reporting	[□§2103.12.k; §2102.04.b.6; Installation Permit 0052-I008]	The permittee shall report all instances of non-compliance with Conditions V.D.1.a through V.D.1.g, V.D.3.a and V.D.3.b above, and V.D.4.a through V.D.4.n above along with all corrective action taken to restore the subject equipment to compliance, to the Department every six months.	Report Submission	Y	C	
V.D.5.b	Reporting	[□§2103.12.k; §2102.04.e; Installation Permit 0052-I008]	Reporting instances of non-compliance in accordance with Condition V.D.5.a above does not relieve the permittee of the requirement to report breakdowns in accordance with IV.8 above, if appropriate.	Report Submission	Y	C	
V.D.5.c	Reporting	[□§2103.12.k; §2109.03 and Enforcement Order 202.E, 3/28/90]	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Report Submission	Y	C	
V.D.5.c.1	Reporting		For each individual coke battery or group of batteries served by the same pushing emission control system, and for all coke batteries combined:	Engineering Judgement	Y	C	
V.D.5.c.1.a	Reporting		The total number of pushes for the month;	Records Review	Y	C	

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				Method	Y/N	Type C/I	
V.D.5.c.1.b	Reporting		The total number of controlled pushes for the month; and the monthly percentage availability (on-line time) of the pushing control system, based on the total number of pushes and total number of controlled pushes.	Records Review	Y	C	
V.D.5.c.2	Reporting		For each outage of the pushing control system at each individual coke battery or group of batteries served by the same pushing emission control system:	Records Review	Y	C	
V.D.5.c.2.a	Reporting		The batteries affected;	Records Review	Y	C	
V.D.5.c.2.b	Reporting		The starting and ending dates and times;	Records Review	Y	C	
V.D.5.c.2.c	Reporting		The total time of each outage, to the nearest tenth of an hour;	Records Review	Y	C	
V.D.5.c.2.d	Reporting		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage.	Records Review	Y	C	
V.D.5.d	Reporting	[§2103.12.k; §2103.12.h.6; §63.7336(a)]	The permittee shall report each instance in which Conditions V.D.1.d, V.D.1.e and V.D.1.f was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which you did not meet each work practice standard or operation and maintenance requirement in conditions V.D.6.a, V.D.6.b and V.D.6.c. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.D.i.5.h through V.D.i.5.k below	Report Submission	Y	C	
V.D.5.e	Reporting	[§2103.12.k; §2103.12.h.6; §63.7336(b)]	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	
V.D.5.e.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Engineering Judgement	Y	C	
V.D.5.e.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.D.5.f	Reporting	[§2103.12.k; §2103.12.h.6; §63.7340(a)]	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Report Submission	Y	C	
V.D.5.g	Reporting	[§2103.12.k; §2103.12.h.6; §63.7340(d)]	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Report Submission	Y	C	
V.D.5.h	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(a)]	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the PEC stacks to the Department according to the requirements in Conditions V.D.5.h.1) and V.D.5.h.2) below:	Report Submission	Y	C	

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				Method	Y/ N	Type C/I	
V.D.5.h.1	Reporting		Each compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Administrative Requirement	Y	C	
V.D.5.h.2	Reporting		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the Department has established instead of according to the dates in Conditions V.D.5.h.1) above.	Administrative Requirement	Y	C	
V.D.5.i	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(c)]	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.D.5.i.1) through V.D.5.i.3) below, and as applicable, Conditions V.D.5.i.4) through V.D.5.i.8) below.	Records Review	Y	C	
V.D.5.i.1	Reporting		Company name and address.	Records Review	Y	C	
V.D.5.i.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Records Review	Y	C	
V.D.5.i.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Records Review	Y	C	
V.D.5.i.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Records Review	Y	C	
V.D.5.i.5	Reporting		If there were no deviations from the continuous compliance requirements in Conditions V.D.3.p) through V.D.3.r below and V.D.4.k) through V.D.4.m below, a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.	Records Review	Y	C	
V.D.5.i.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Records Review	Y	C	
V.D.5.i.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.D.5.i.4), V.D.5.i.7)a) and V.D.5.i.7)b) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.D.5.i.7.a	Reporting		The total operating time of each affected source during the reporting period.	Records Review	Y	C	
V.D.5.i.7.b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Records Review	Y	C	
V.D.5.i.8	Reporting		For each deviation from an emission limitation occurring at an affected source where the permittee is using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.D.5.i.4), V.D.5.i.8)a) through V.D.5.i.8)l) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.D.5.i.8.a	Reporting		The date and time that each malfunction started and stopped.	Records Review	Y	C	
V.D.5.i.8.b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Records Review	Y	C	
V.D.5.i.8.c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Records Review	Y	C	
V.D.5.i.8.d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.D.5.i.8.e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Records Review	Y	C	
V.D.5.i.8.f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Records Review	Y	C	
V.D.5.i.8.g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Records Review	Y	C	
V.D.5.i.8.h	Reporting		An identification of each HAP that was monitored at the affected source.	Records Review	Y	C	
V.D.5.i.8.i	Reporting		A brief description of the process units.	Records Review	Y	C	
V.D.5.i.8.j	Reporting		A brief description of the continuous monitoring system.	Records Review	Y	C	
V.D.5.i.8.k	Reporting		The date of the latest continuous monitoring system certification or audit.	Records Review	Y	C	
V.D.5.i.8.l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Engineering Judgement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.D.5.j	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(d)]	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Report Submission	Y	C	
V.D.5.k	Reporting	[§2103.12.k; §2103.12.h.6; §63.7341(e)]	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.D.6.a	Work Practice Standards	[§2103.12.k; §2103.12.h.6; §63.7310(c)]	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63, Subpart A, §63.6(e)(3).	Engineering Judgment	Y	C	
V.D.6.b	Work Practice Standards	[§2103.12.k; §2103.12.h.6; §63.7300(a)]	As required by §63.6(e)(1)(i), the permittee shall operate and maintain each coke battery including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by 40 CFR Part 63, Subpart CCCCC.	Process Knowledge	Y	C	
V.D.6.c	Work Practice Standards	[§2103.12.k; §2103.12.h.6; §63.7310(a)]	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Records Review	Y	C	
V.D.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.1.a	Restrictions	§2103.12.h.6; 63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in each battery that is capable of controlling 120 percent of the normal gas flow generated by each battery, which shall thereafter be operated and maintained.	Process Knowledge & Physical Inspection	Y	C	
V.E.1.b	Restrictions	§2103.12.h.6; 63.307(a)(2)	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system or the alternative control device as described in V.E.1.c below.	Process Knowledge & Physical Inspection	Y	C	
V.E.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.E.1.a above and V.E.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system.	Administrative Requirement	Y	C	
V.E.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Engineering Judgement	Y	C	
V.E.1.e	Restrictions	§2103.12.h.6; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.f	Restrictions	§2105.21.b.5	The permittee shall not operate, or allow to be operated, coke oven batteries 19 and 20 unless there is installed big plug doors on the coke side of each oven. A big plug door is a door that, when installed, contains a plug with minimum dimensions of 17" minimum width and 16 1/4" minimum depth.	Process Knowledge & Physical Inspection	Y	C*	The compliance certification contained in this submittal is based on the understanding that big plug doors meet the specified dimensions when initially installed except that portion of the plug located in the tunnel head above the design coal line. The plugs may experience inconsequential dimensional changes over time in the course of normal operation.
V.E.1.g	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and its pollution control equipment required under 40 CFR 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.1.h	Restrictions	§2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.i	Restrictions	§2103.12.h.6; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.E.1.a above through V.E.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours with an observation period of 2 hours.	Direct Measurement & Record Review	Y	C	
V.E.1.j	Restrictions	§2103.12.h.6; §63.304(b)(2)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative Requirement	Y	C	
V.E.1.j.1	Restrictions		3.3 percent leaking coke oven doors as determined by the procedures in Condition V.E.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.E.1.j.2	Restrictions		0.4 percent leaking topside port lids, as determined by the procedures in Condition V.E.3.d.1) below;	Direct Measurement & Record Review	Y	C	
V.E.1.j.3	Restrictions		2.5 percent leaking offtake system(s), as determined by the procedures in Condition V.E.3.d.1) below; and	Direct Measurement & Record Review	Y	C	
V.E.1.j.4	Restrictions		12 seconds of visible emissions per charge, as determined by the procedures in V.E.3.d.2) below.	Direct Measurement & Record Review	Y	C	
V.E.1.k	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall implement the provisions of the work practice plan, required in Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Process Knowledge/ Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.1.l	Restrictions	§2105.21.a.2	The permittee shall not operate, or allow to be operated any No. 19 Battery coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 75 seconds during any four (4) consecutive charges on such battery.	Direct Measurement & Record Review	Y	C	
V.E.1.m	Restrictions	§2105.21.a.1	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 20 in such manner that the aggregate of visible charging emissions exceeds a total of 55 seconds during any five (5) consecutive charges.	Direct Measurement & Record Review	Y	C	
V.E.1.n	Restrictions	§2105.21.b.4	The permittee shall not operate, or allow to be operated Coke Oven Batteries 19 or 20 in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.o	Restrictions	§2105.21.b.3.A, B & C	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 19 in such manner that, at any time, there are visible emissions from more than eight percent (8%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.E.1.p	Restrictions	§2105.21.b.1	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 20 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view.	Direct Measurement & Record Review	Y	C	
V.E.1.q	Restrictions	§2105.21.c.2	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 19 in such manner that, at any time, there are visible emissions from more than two percent (2%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.r	Restrictions	§2105.21.c.1	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 20 in such manner that, at any time, there are visible emissions from more than one percent (1%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.s	Restrictions	§2105.21.d.2	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 19 in such manner that, at any time, there are visible emissions from more than five percent (5%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.1.t	Restrictions	§2105.21.d.1	The permittee shall not operate, or allow to be operated Coke Oven Battery No. 20 in such manner that, at any time, there are visible emissions from more than four percent (4%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement & Record Review	Y	C	
V.E.1.u	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Coke Oven Batteries 19 or 20 in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.v	Restrictions	§2103.12.i; §2103.12.h.6; Enforcement Order No. 161, July 23, 1990	The permittee shall install, operate, maintain and calibrate a continuous opacity monitoring system on the combustion stack serving Coke Oven Battery 20.	Process Knowledge & Record Review	Y	C	
V.E.1.w	Restrictions	§2105.21.f.2	The permittee shall not operate, or allow to be operated, Coke Oven Battery No. 19 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.030 grains per dry standard cubic foot.	Direct Measurement	Y	C	
V.E.1.x	Restrictions	§2105.21.f.1	The permittee shall not operate, or allow to be operated, Coke Oven Battery No. 20 in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.0015 grains per dry standard cubic foot.	Direct Measurement	Y	C	
V.E.1.y	Restrictions	§2105.21.f.3 & 4	The permittee shall not operate, or allow to be operated, Coke Oven Batteries 19 or 20 in such manner that, at any time, emissions from the combustion stack serving each battery equal or exceed an opacity of 20% for a period or periods aggregating in excess of three (3) minutes in any 60 minute period; or equal or exceed an opacity of 60% at any time.	Direct Measurement & Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.1.z	Restrictions	§2103.12.h.6; §63.7296(a) and (b)	The permittee shall not discharge to the atmosphere any emissions from any battery stack that exhibit an opacity greater than the following applicable limits:	Administrative	Y	C	
V.E.1.z.1	Restrictions		Daily average of 15 percent opacity for a battery on a normal coking cycle.	Direct Measurement & Record Review	Y	C	
V.E.1.z.2	Restrictions		Daily average of 20 percent opacity for a battery on batterywide extended coking.	Direct Measurement & Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.1.aa	Restrictions	§2103.12.h.6; §63.7326(d)	The permittee shall submit a notification of compliance status containing the results of the COMS performance test for battery stacks before the close of business on the 30th calendar days following the completion of the compliance demonstration. For each particulate matter emission limitation that applies to you, the permittee shall submit a notification of compliance status containing the results of the performance test before the close of business on the 60th calendar days following completion of the performance test according to §63.10(d)(2).	Record Review			
V.E.1.bb	Restrictions	§2105.21.f.2, §2105.21.h.4 and §2103.12.a.2.B	Emissions from Coke Battery No.19 combustion stack shall not exceed the emission limitations in V-E-1.	Administrative Requirement	Y	C	
V.E.1.bb	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.E.1.bb	Restrictions		PM 25.2 110.2		Y	C	
V.E.1.bb	Restrictions		PM-10 25.2 110.2		Y	C	
V.E.1.bb	Restrictions		PM 2.5 25.2 110.2		Y	C	
V.E.1.bb	Restrictions		SO2 61.5 269.52		Y	C	
V.E.1.bb	Restrictions		A year is defined as any consecutive 12-month period.				
V.E.1.cc	Restrictions	§2105.21.f.1, §2105.21.h.4 and §2103.12.a.2.B	Emissions from Coke Battery No.20 combustion stack shall not exceed the emission limitations in Table V-G-2.	Administrative Requirement			
V.E.1.cc	Restrictions		POLLUTANT HOURLY LIMIT (lb/hr) ANNUAL LIMIT (ton/yr)				
V.E.1.cc	Restrictions		PM 13.4		Y	C	
V.E.1.cc	Restrictions		PM-10 13.4		Y	C	
V.E.1.cc	Restrictions		PM 2.5 13.4		Y	C	
V.E.1.cc	Restrictions		SO2 61.5 269.52		Y	C	
V.E.1.cc	Restrictions		A year is defined as any consecutive 12-month period.				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.2.a	Testing	§2108.02.b, §2108.02.e and Second Consent Decree, 6/24/1993	The permittee shall have PM, PM2.5, and PM10 emissions stack tests performed on the combustion stacks of Coke Battery 19 at least once every two (2) and Battery 20 at least once every four (4) years to demonstrate compliance with the mass emission standard in V.E.1.w and V.E.1.x above. Particulate emission tests shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Methods 1 through 5, 201A and 202 (or other method specified). The permittee shall submit a stack test protocol to the Department at least 45 days prior to the test dates. During each stack test performed, simultaneous visible emission evaluations shall be conducted according to the methodology specified in 40 CFR 60, Appendix A, Method 9, except for the provisions of Section 2.5 of Method 9.	Record Review	Y	C	
V.E.2.b	Testing	§2108.02.b	The permittee shall have sulfur dioxide (SO2) emissions stack tests performed on the combustion stacks of Coke Batteries 19 and 20 at least once every two years to demonstrate compliance with the mass emission limitations for each combustion stack in Conditions V.E.1.bb and V.E.1.cc above, respectively.. SO2 emission tests shall be conducted according to Method 6, 6A, 6B, or 6C specified in 40 CFR 60, Appendix A. The permittee shall submit a stack test protocol to the Department at least 45 days prior to the test dates	Record Review	Y	C	
V.E.2.c	Testing	§2103.12.h.1; §2108.02.b, §2108.02.e	The permittee shall perform emissions testing and evaluations for NOX on each combustion stack of Coke Batteries 19 and 20 to develop emission factors that can be applied to quantify NOx emissions. This evaluation shall include stack testing, an analysis of B Battery CEM data, and an evaluation of gas combustion and operating variables that affect NOx. Testing for NOx shall be conducted at least once every two years in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Report of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.2.d	Testing	§2103.12.h.1; §2108.02.b, §2108.02.e.	The permittee shall perform emissions testing and evaluations for CO and VOC on each combustion stack of Coke Batteries 19 and 20 to develop emission factors that can be applied to quantify CO & VOC emissions. Testing for CO and VOC shall be conducted in accordance with approved EPA Methods in Appendix A of 40 CFR Part 60, Article XXI §2108.02, and as approved by the Department. Reports of the stack testing results shall be submitted to the Department within 90 days of the date of the stack test. The evaluation report shall be made available to the Department upon request and at permit renewal.	Record Review	Y	C	
V.E.2.e	Testing	§2103.12.h.1	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.E.3.a	Monitoring	§2103.12.i; §2103.12.h.6; §63.308	The permittee shall:	Administrative Requirement	Y	C	
V.E.3.a.1	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(a)	Inspect the collecting main for leaks at least once daily according to the procedures in Method 303 in 40 CFR Part 63, Appendix A	Record Review	Y	C	
V.E.3.a.2	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(b)	Record the time and date a leak in the collecting main is first observed, the time and date the leak is temporarily sealed, and the time and date of repair	Record Review	Y	C	
V.E.3.a.3	Monitoring	§2103.12.i; §2103.12.h.6; §63.308©	Temporarily seal any leak in the collecting main as soon as possible after detection, but no later than 4 hours after detection of the leak; and	Record Review	Y	C	
V.E.3.a.4	Monitoring	§2103.12.i; §2103.12.h.6; §63.308(d)	Initiate a collecting main repair as expeditiously as possible, but no later than 5 calendar days after initial detection of the leak. The repair shall be completed within 15 calendar days after initial detection of the leak unless an alternative schedule is approved by the Department.	Record Review	Y	C	
V.E.3.b	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(a)	Except as otherwise provided, a daily performance test shall be conducted each day, 7 days per week for each coke oven battery, the results of which shall be used in accordance with procedures in Condition V.E.3.c below through V.E.3.f below to determine compliance with each of the applicable visible emission limitations for coke oven doors, topside port lids, offtake systems, and charging operations.	Record Review	Y	C	
V.E.3.b.1	Monitoring		Each performance test is to be conducted according to the procedures and requirements in Method 303 in Appendix A to 40 CFR Part 63 or Methods 9 and 22 in Appendix A to 40 CFR Part 60 (where applicable).	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.3.b.2	Monitoring		Each performance test is to be conducted by a certified observer.	Record Review	Y	C	
V.E.3.b.3	Monitoring		The certified observer shall complete any reasonable safety training program offered by the permittee prior to conducting any performance test at a coke oven battery.	Administrative Requirement	Y	C	
V.E.3.b.4	Monitoring		Except as otherwise provided in §63.309(a)(5), the permittee shall pay an inspection fee to the Department each calendar quarter, as specified in §63.309(a)(4), to defray the costs of the daily performance tests required in Condition V.E.3.b above.	Record Review	Y	C	
V.E.3.b.5	Monitoring		If a facility pushes and charges only at night, then that facility must, at its option, change their schedule and charge during daylight hours or provide adequate lighting so that visible emission inspections can be made at night. "Adequate lighting" shall be determined by the Department.	Record Review	Y	C	
V.E.3.c	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(c)	The certified observer shall conduct each performance test according to the following requirements:	Administrative Requirement	Y	C	
V.E.3.c.1	Monitoring		The certified observer shall conduct one run each day to observe and record visible emissions from each coke oven door, topside port lid, and offtake system on each coke oven battery. The certified observer also shall conduct five runs to observe and record the seconds of visible emissions per charge for five consecutive charges from each coke oven battery. The observer may perform additional runs as needed to obtain and record a visible emissions value (or set of values) for an emission point that is valid under Method 303 in Appendix A to 40 CFR Part 63. Observations from fewer than five consecutive charges shall constitute a valid set of charging observations only in accordance with the procedures and conditions specified in Sections 3.8 and 3.9 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.E.3.c.2	Monitoring		If a valid visible emissions value (or set of values) is not obtained for a performance test, there is no compliance determination for that day. Compliance determinations will resume on the next day that a valid visible emissions value (or set of values) is obtained.	Record Review	Y	C	
V.E.3.c.3	Monitoring		After each performance test, the certified observer shall check and record the collecting main pressure according to the procedures in Section 6.3 of Method 303 in Appendix A of 40 CFR 63.	Record Review	Y	C	
V.E.3.c.3.a	Monitoring		The permittee shall demonstrate pursuant to Method 303 in Appendix A of 40 CFR 63 the accuracy of the pressure measurement device upon request of the certified observer;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.3.c.3.b	Monitoring		The permittee shall not adjust the pressure to a level below the range of normal operation during or prior to the inspection;	Record Review	Y	C	
V.E.3.c.3.c	Monitoring		In no case shall the permittee knowingly block a coke oven door, or any portion of a door for the purpose of concealing emissions or preventing observations by the certified observer.	Physical Inspection	Y	C	
V.E.3.d	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(d)	Using the observations obtained from each performance test, the Department shall compute and record, in accordance with the procedures and requirements of Method 303 in Appendix A of 40 CFR 63 to this part, for each day of operations on which a valid emissions value (or set of values) is obtained:	Record Review	Y	C	
V.E.3.d.1	Monitoring		The 30-run rolling average of the percent leaking coke oven doors, topside port lids, and offtake systems on each coke oven battery, using the equations in sections 4.5.3.2, 5.6.5.2, and 5.6.6.2 of Method 303 in Appendix A;	Record Review	Y	C	
V.E.3.d.2	Monitoring		For by-product coke oven battery charging operations, the logarithmic 30-day rolling average of the seconds of visible emissions per charge for each battery, using the equation in section 3.9 of Method 303 in Appendix A;	Record Review	Y	C	
V.E.3.e	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(e)	The certified observer shall make available to the Department as well as to the permittee, a copy of the daily inspection results by the end of the day and shall make available the calculated rolling average for each emission point to the permittee as soon as practicable following each performance test. The information provided by the certified observer is not a compliance determination. For the purpose of notifying the permittee of the results obtained by a certified observer, the person does not have to be certified.	Record Review	Y	C	
V.E.3.f	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(f)	Compliance shall not be determined more often than the schedule provided for performance tests in Condition V.E.3.b above. If additional valid emissions observations are obtained (or in the case of charging, valid sets of emission observations), the arithmetic average of all valid values (or valid sets of values) obtained during the day shall not be used in any computations performed to determine compliance under Condition V.E.3.d above or determinations under Conditions IV.27 above.	Record Review	Y	C	
V.E.3.g	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(h)	For a flare installed to meet the requirements of Condition V.E.1.d and V.E.1.e above:	Administrative Requirement	Y	C	
V.E.3.g.1	Monitoring		Compliance with the provisions in Condition V.E.1.i above (visible emissions from flares) shall be determined using Method 22 in Appendix A to 40 CFR Part 60, with an observation period of 2 hours; and	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.3.g.2	Monitoring		Compliance with the provisions in Condition V.E.1.e above (flare pilot light) shall be determined using a thermocouple or any other equivalent device.	Process Knowledge and Record Review	Y	C	
V.E.3.h	Monitoring	§2103.12.i; §2103.12.h.6; §63.309(i)	No observations obtained during any program for training or for certifying observers under 40 CFR 63, Subpart L shall be used to determine compliance with the requirements of Subpart L or any other federally enforceable standard.	Administrative Requirement	Y	C	
V.E.3.i	Monitoring	§2103.12.i; §2103.12.h.6; §63.7300(b)	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for the general operation and maintenance of all coke oven batteries. Each plan must address, at a minimum, the following elements:	Record Review	Y	C	
V.E.3.i.1	Monitoring		Frequency and method of recording underfiring gas parameters.	Record Review	Y	C	
V.E.3.i.2	Monitoring		Frequency and method of recording battery operating temperature, including measurement of individual flue and cross-wall temperatures.	Record Review	Y	C	
V.E.3.i.3	Monitoring		Procedures to prevent pushing an oven before it is fully coked.	Record Review	Y	C	
V.E.3.i.4	Monitoring		Procedures to prevent overcharging and undercharging of ovens, including measurement of coal moisture, coal bulk density, and procedures for determining volume of coal charged.	Record Review	Y	C	
V.E.3.i.5	Monitoring		Frequency and procedures for inspecting flues, burners, and nozzles.	Record Review	Y	C	
V.E.3.i.6	Monitoring		Schedule and procedures for the daily washing of baffles	Record Review	Y	C	
V.E.3.j	Monitoring	§2103.12.i; §2103.12.h.6; §63.7330(e)	The permittee shall monitor at all times the opacity of emissions exiting each coke oven battery stack using a COMS according to the requirements in V.D.3.m or §63.7331(i).	Record Review	Y	C	
V.E.3.k	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331©	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Record Review	Y	C	
V.E.3.l	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(d)	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Record Review	Y	C	
V.E.3.m	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(j)	For each coke oven battery, the permittee shall install, operate, and maintain a COMS to measure and record the opacity of emissions exiting each stack according to the requirements in Conditions V.E.3.m.1) through V.E.3.m.5) below:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.3.m.1	Monitoring		Install, operate, and maintain each COMS according to the requirements in §63.8(e) and Performance Specification 1 in 40 CFR Part 60, Appendix B. Identify periods when the COMS is out-of-control, including any periods that the COMS fails to pass a daily calibration drift assessment, quarterly performance audit, or annual zero alignment audit.	Record Review	Y	C	
V.E.3.m.2	Monitoring		Conduct a performance evaluation of each COMS according to the requirements in §63.8 and Performance Specification 1 in Appendix B to 40 CFR Part 60;	Record Review	Y	C	
V.E.3.m.3	Monitoring		Develop and implement a quality control program for operating and maintaining each COMS according to the requirements in §63.8(d). At minimum, the quality control program must include a daily calibration drift assessment, quarterly performance audit, and an annual zero alignment audit of each COMS:	Record Review	Y	C	
V.E.3.m.4	Monitoring		Each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. You must reduce the COMS data as specified in §63.8(g)(2).	Record Review	Y	C	
V.E.3.m.5	Monitoring		Determine and record the hourly and daily (24-hour) average opacity according to the procedures in §63.7324(b) using all the 6-minute averages collected for periods during which the COMS is not out-of-control.	Record Review	Y	C	
V.E.3.n	Monitoring	§2103.12.i; §2103.12.h.6; §63.7332(a)	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Record Review	Y	C	
V.E.3.o	Monitoring	§2103.12.i; §2103.12.h.6; §63.7332(b)	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.3.p	Monitoring	§2103.12.i; §2103.12.h.6; §63.7333(e)	The permittee shall demonstrate continuous compliance for each by-product coke oven battery subject to the opacity limit for stacks in Condition V.E.1.z above by meeting the requirements in Conditions V.E.3.p.1) through V.E.3.p.2) below:	Administrative Requirement	Y	C	
V.E.3.p.1	Monitoring		Maintaining the daily average opacity at or below 15 percent for a battery on a normal coking cycle or 20 percent for a battery on batterywide extended coking; and	Record Review	Y	C	
V.E.3.p.2	Monitoring		Operating and maintaining a COMS and collecting and reducing the COMS data according to Condition V.E.3.m above.	Record Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.E.4.a	Record Keeping	§2103.12.j; §2103.12.h.6; §63.311(f)	The permittee shall maintain files of all required information in a permanent form suitable for inspection at an onsite location for at least 1 year and must thereafter be accessible within 3 working days to the Department for a period of five years. Copies of the work practice plan developed under Condition IV.27 above and the startup, shutdown, and malfunction plan developed under Conditions V.E.6.c through V.E.6.d below shall be kept onsite at all times. The permittee shall maintain the following information:	Administrative Requirement	Y	C	
V.E.4.a.1	Record Keeping		A copy of the work practice plan required by Condition IV.27 above and any revision to the plan;	Record Review	Y	C	
V.E.4.a.2	Record Keeping		If the permittee is required under Condition V.E.6.b to implement the provisions of a work practice plan for a particular emission point, the following records regarding the implementation of plan requirements for that emission point <u>during the implementation period</u> :	Record Review	Y	C	
V.E.4.a.2. a	Record Keeping		Copies of all written and audiovisual materials used in the training, the dates of each class, the names of the participants in each class, and documentation that all appropriate personnel have successfully completed the training required <u>under Condition IV.27.b.1) above</u> ;	Record Review	Y	C	
V.E.4.a.2. b	Record Keeping		The records required to be maintained by the plan provisions implementing Condition IV.27.b.6) above;	Record Review	Y	C	
V.E.4.a.2. c	Record Keeping		Records resulting from audits of the effectiveness of the work practice program for the particular emission point, as required in Conditions IV.27.b.2)a), IV.27.b.3)a), IV.27.b.4)a) or IV.27.b.5)a) above; and	Record Review	Y	C	
V.E.4.a.2. d	Record Keeping		If the plan provisions for coke oven doors must be implemented, records of the inventory of doors and jambs as required under Condition IV.27.b.2)f) above; and	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.4.a.3	Record Keeping		The design drawings and engineering specifications for the bypass/bleeder stack flare system or approved alternative control device or system as required under Conditions V.E.1.a through V.E.1.e above.	Record Review	Y	C	
V.E.4.a.4	Record Keeping		Records specified in Condition V.E.6.g below regarding the basis of each malfunction notification.	Record Review	Y	C	
V.E.4.b	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7342(a)	The permittee shall keep the following records: [§2103.12.j; §2103.12.h.6; §63.7342(a)]	Administrative Requirement	Y	C	
V.E.4.b.1	Record Keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Record Review	Y	C	
V.E.4.b.2	Record Keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Record Review	Y	C	
V.E.4.b.3	Record Keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Record Review	Y	C	
V.E.4.c	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7342(b)	For each COMS or CEMS, the permittee shall keep the following records. [§2103.12.j; §2103.12.h.6; §63.7342(b)]	Administrative Requirement	Y	C	
V.E.4.c.1	Record Keeping		Records described in §63.10(b)(2)(vi) through (xi).	Record Review	Y	C	
V.E.4.c.2	Record Keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Record Review	Y	C	
V.E.4.c.3	Record Keeping		Previous (that is, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).	Record Review	Y	C	
V.E.4.c.4	Record Keeping		Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	
V.E.4.d	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7342©	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Record Review	Y	C	
V.E.4.e	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7343(b)	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Record Review	Y	C	
V.E.4.f	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7343(c)	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.4.g	Record Keeping	§2103.12.j; 63.7335(a)	For each by-product coke oven battery, the permittee must demonstrate continuous compliance with the operation and maintenance requirements in V.E.3.i above by adhering at all times to the plan requirements and recording all information needed to document conformance.	Record Review	Y	C	
V.E.4.h	Record Keeping	§2103.12.j; 63.7335(d)	The permittee shall maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Record Review	Y	C	
V.E.4.i	Record Keeping	§2103.12.j; §2103.12.h.6; §63.7334(d)	The permittee must demonstrate continuous compliance to the work practice standard for soaking in V.E.6.k below, by maintaining records that document conformance with requirements in V.E.6.k.1) through V.E.6.k.5) below.	Record Review	Y	C	
V.E.5.a	Reporting	§2103.12.k; §2109.03 and Enforcement Order 202.E, 3/28/90	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Record Review	Y	C	
V.E.5.a.1	Reporting		For all coke batteries combined, the daily average for the month of:	Record Review	Y	C	
V.E.5.a.1. a	Reporting		Coal charged, in tons;	Record Review	Y	C	
V.E.5.a.1. b	Reporting		Coke produced, in tons;	Record Review	Y	C	
V.E.5.a.1. c	Reporting		Total coke oven gas produced; in MMCF;	Record Review	Y	C	
V.E.5.a.1. d	Reporting		Quench water used, in gallons;	Record Review	Y	C	
V.E.5.a.1. e	Reporting		Elemental sulfur produced, in tons;	Record Review	Y	C	
V.E.5.a.1.	Reporting		Sulfur content of coal, in percent; and	Record Review	Y	C	
V.E.5.a.1. g	Reporting		Sulfur content of coke, in percent.	Record Review	Y	C	
V.E.5.a.2	Reporting		For all periods during which contaminated quench water was used:	Administrative Requirement	Y	C	
V.E.5.a.2. a	Reporting		The batteries affected;	Record Review	Y	C	
V.E.5.a.2. b	Reporting		The starting and ending dates and times;	Record Review	Y	C	
V.E.5.a.2. c	Reporting		The total time of each period, and total for the month, to the nearest tenth of an hour;	Record Review	Y	C	
V.E.5.a.2. d	Reporting		The corresponding Department Breakdown Number;	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.5.a.2.e	Reporting		The average flow rates of contaminated water to both the quench towers and the water treatment plant during the period, each in gallons per minute; and	Record Review	Y	C	
V.E.5.a.2.	Reporting		The reason(s) or cause(s) for each period.	Record Review	Y	C	
V.E.5.b	Reporting	§2103.12.k; Enforcement Order No. 161, July 23, 1990	No later than twenty (20) days after the end of each month, a written report of a summary of the following for Coke Battery No. 20 combustion stack continuous opacity monitoring system, during each such month shall be submitted to the Department:	Record Review	Y	C	
V.E.5.b.1	Reporting		The monthly average percent availability (on-line time), based on total minutes of coke operations and total minutes available;	Record Review	Y	C	
V.E.5.b.2	Reporting		The daily percentage available;	Record Review	Y	C	
V.E.5.b.3	Reporting		The number of days on which there was less than 100% availability;	Record Review	Y	C	
V.E.5.b.4	Reporting		For each of the coke oven combustion stack visible emission standards set forth in §2105.21.f.3 & f.4, the total number of hours for the month, and the number of hours each day, during which an exceedance of such standard was measured by such continuous opacity monitor;	Record Review	Y	C	
V.E.5.b.5	Reporting		The number and nature of tests, calibrations, and any other quality assurance activities performed; and	Record Review	Y	C	
V.E.5.b.6	Reporting		The dates, times and results of all such activities.	Record Review	Y	C	
V.E.5.c	Reporting	§2103.12.k; §2103.12.h.6; §63.311(d)	The permittee shall include the following information in the semiannual compliance certification:	Administrative Requirement	Y	C	
V.E.5.c.1	Reporting		Certification, signed by the permittee, that no coke oven gas was vented, except through the bypass/bleeder stack flare system during the reporting period or that a venting report has been submitted according to the requirements in Condition V.E.5.e below.	Record Review	Y	C	
V.E.5.c.2	Reporting		Certification, signed by the permittee, that a startup, shutdown, or malfunction event did not occur for a coke oven battery during the reporting period or that a startup, shutdown, and malfunction event did occur and a report was submitted according to the requirements in Condition V.E.6.f below; and	Record Review	Y	C	
V.E.5.c.3	Reporting		Certification, signed by the permittee, that work practices were implemented if applicable under Condition IV.27 above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.5.d	Reporting	§2103.12.k; §2103.12.h.6; §63.311(e)	The permittee shall report any venting of coke oven gas through a bypass/bleeder stack that was not vented through the bypass/bleeder stack flare system to the Department as soon as practicable but no later than 24 hours after the beginning of the event. A written report shall be submitted within 30 days of the event and shall include a description of the event and, if applicable, a copy of the notification for a hazardous substance release required pursuant to 40 CFR §302.6 as set forth in battery NESHAP.	Record Review	Y	C	
V.E.5.e	Reporting	§2103.12.k; §2103.12.h.6; §63.310(d)	In order for the provisions of §63.310(i) to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee as follows:	Record Review	Y	C	
V.E.5.e.1	Reporting		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	
V.E.5.e.2	Reporting		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.E.5.f	Reporting	§2103.12.k; §2103.12.h.6; §63.310(e)	Within 14 days of the notification startup, shutdown, or a malfunction, the permittee shall submit a written report to the Department that:	Record Review	Y	C	
V.E.5.f.1	Reporting		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.E.5.f.2	Reporting		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.E.5.g	Reporting	§2103.12.k; Enforcement Order, 3/17/2008, Condition V.a.1	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum the list of every clock hour in the calendar quarter that compliance is not achieved for Article XXI opacity limits applicable to Batteries 19 & 20 combustion stacks as measured by the combustion stacks continuous opacity monitor (COM). U.S. Steel shall indicate the date, time, root cause, and ovens that are believed to have contributed to the exceedance.	Record Review	Y	C	
V.E.5.h	Reporting	§2103.12.k; Consent Order and Agreement (COA), Third Amendment, July 6, 2011, Condition V.a.2-4	The permittee shall submit a written quarterly report within thirty (30) days after the close of each calendar quarter to the Department. The quarterly reports shall contain, at minimum, the following:	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.5.h.1	Reporting		A list of heating walls that have been replaced and put back into service along with the corresponding completion and startup dates;	Record Review	Y	C	
V.E.5.h.2	Reporting		A list of heating walls currently out of service for replacement;	Record Review	Y	C	
V.E.5.h.3	Reporting		A list of heating walls planned to be taken out of service for replacement during the subsequent quarter.	Record Review	Y	C	
V.E.5.i	Reporting	§2103.12.k; Consent Order and Agreement (COA), Third Amendment, July 6, 2011, Condition V.a.8	The permittee shall submit to the Department a Semi-Annual Deviation Reports for all deviations from Article XXI §2105.21(e)(4) and (e)(5) for Batteries 19 & 20.	Record Review	Y	C	
V.E.5.j	Reporting	§2103.12.k; §2103.12.h.6; §63.7336(a)	The permittee shall report each instance in which each emission limitation in Conditions V.E.1.z and V.E.1.aa was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.E.6.k, V.E.6.l and V.E.6.m. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.E.5.n through V.E.5.r below.	Record Review	Y	C	
V.E.5.k	Reporting	§2103.12.k; §2103.12.h.6; §63.7336(b)	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.E.5.k.1	Reporting		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.E.5.k.2	Reporting		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Record Review	Y	C	
V.E.5.l	Reporting	§2103.12.k; §2103.12.h.6; §63.7340(a)	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.5.m	Reporting	§2103.12.k; §2103.12.h.6; §63.7340(d)	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Record Review	Y	C	
V.E.5.n	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(a)	Unless the Department has approved a different schedule, you must submit quarterly compliance reports for battery stacks and semiannual compliance reports for all other affected sources to your permitting authority according to the requirements in Conditions V.E.5.n.1) through V.E.5.n.3) below:	Record Review	Y	C	
V.E.5.n.1	Reporting		Each quarterly compliance report for battery stacks shall be submitted in accordance with General Condition III.15.e above.	Record Review	Y	C	
V.E.5.n.2	Reporting		All quarterly compliance reports for battery stacks must be postmarked or delivered no later than one calendar month following the end of the quarterly reporting period.	Record Review	Y	C	
V.E.5.o	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(b)	Each quarterly report must provide information on compliance with the emission limitations for battery stacks in V.E.1.z above. The reports must include the information in Conditions V.E.5.p.1) through V.E.5.p.3) below, and as applicable, Condition V.E.5.p.4) through V.E.5.p.8) below.	Record Review	Y	C	
V.E.5.p	Reporting	§2103.12.k; §2103.12.h.6; §63.7341©	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.E.5.p.1) through V.E.5.p.3) below, and as applicable, Conditions V.E.5.p.4) through V.E.5.p.8) below.	Record Review	Y	C	
V.E.5.p.1	Reporting		Company name and address.	Record Review	Y	C	
V.E.5.p.2	Reporting		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Record Review	Y	C	
V.E.5.p.3	Reporting		Date of report and beginning and ending dates of the reporting period.	Record Review	Y	C	
V.E.5.p.4	Reporting		If there was a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Record Review	Y	C	
V.E.5.p.5	Reporting		If there were no deviations from the continuous compliance requirements in V.E.3.p above for battery stacks, a statement that there were no deviations from the emission limitations during the reporting period.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.5.p.6	Reporting		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Record Review	Y	C	
V.E.5.p.7	Reporting		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.E.5.p.4), V.E.5.p.7)a) and V.E.5.p.7)b) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.E.5.p.7. a	Reporting		The total operating time of each affected source during the reporting period.	Record Review	Y	C	
V.E.5.p.7. b	Reporting		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Record Review	Y	C	
V.E.5.p.8	Reporting		For each deviation from an emission limitation occurring at an affected source where the permittee using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.E.5.p.4), V.E.5.p.8)a) through V.E.5.p.8)l) below. This includes periods of startup, shutdown, and malfunction.	Record Review	Y	C	
V.E.5.p.8. a	Reporting		The date and time that each malfunction started and stopped.	Record Review	Y	C	
V.E.5.p.8. b	Reporting		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Record Review	Y	C	
V.E.5.p.8. c	Reporting		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Record Review	Y	C	
V.E.5.p.8. d	Reporting		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.5.p.8. e	Reporting		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Record Review	Y	C	
V.E.5.p.8. f	Reporting		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Record Review	Y	C	
V.E.5.p.8. g	Reporting		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Record Review	Y	C	
V.E.5.p.8. h	Reporting		An identification of each HAP that was monitored at the affected source.	Record Review	Y	C	
V.E.5.p.8.	Reporting		A brief description of the process units.	Record Review	Y	C	
V.E.5.p.8.	Reporting		A brief description of the continuous monitoring system.	Record Review	Y	C	
V.E.5.p.8. k	Reporting		The date of the latest continuous monitoring system certification or audit.	Record Review	Y	C	
V.E.5.p.8. l	Reporting		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Record Review	Y	C	
V.E.5.q	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(d)	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Record Review	Y	C	
V.E.5.r	Reporting	§2103.12.k; §2103.12.h.6; §63.7341(e)	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Record Review	Y	C	
V.E.6.a	Work Practices	§2105.06; RACT Plan 234	Coke Oven Batteries 19 and 20 shall be properly maintained and operated at all times according to good engineering and air pollution control practices.	Physical Inspection & Record Review	Y	C	
V.E.6.b	Work Practices	§2103.12.h.6; §63.306	The permittee shall comply with the provisions of the applicable workpractice requirements in Site level Condition IV.27.a above	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.E.6.c	Work Practices	§2103.12.h.6; §63.310(b)	The permittee shall develop and implement according to Condition V.E.6.d below, a written startup, shutdown, and malfunction plan that describes procedures for operating the battery, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. All the provisions of Site Level Condition IV.8 above remain applicable and are not superceded by operating in accordance with the startup, shutdown, and malfunction plan.	Record Review	Y	C	
V.E.6.d	Work Practices	§2103.12.h.6; §63.310(c)	During a period of startup, shutdown, or malfunction the permittee shall:	Administrative Requirement	Y	C	
V.E.6.d.1	Work Practices		Operate the battery (including associated air pollution control equipment) in accordance with the procedure specified in the startup, shutdown, and malfunction plan; and	Record Review	Y	C	
V.E.6.d.2	Work Practices		Correct malfunctions as soon as practicable after their occurrence, in accordance with the plan.	Record Review	Y	C	
V.E.6.e	Work Practices	§2103.12.h.6; §63.310(d)	In order for the provisions of Condition V.E.6.j below to apply with respect to the observation (or set of observations) for a particular day, notification of a startup, shutdown, or a malfunction shall be made by the permittee:	Record Review	Y	C	
V.E.6.e.1	Work Practices		If practicable, to the certified observer if the observer is at the facility during the occurrence; or	Record Review	Y	C	
V.E.6.e.2	Work Practices		To the Department, in writing, within 24 hours of the occurrence first being documented by a company employee, and if the notification under Condition V.E.6.j below was not made, an explanation of why no such notification was made.	Record Review	Y	C	
V.E.6.f	Work Practices	§2103.12.h.6; §63.310(e)	Within 14 days of the notification made under Condition V.E.6.e above, or after a startup or shutdown, the permittee shall submit a written report to the Department that:	Record Review	Y	C	
V.E.6.f.1	Work Practices		Describes the time and circumstances of the startup, shutdown, or malfunction; and	Record Review	Y	C	
V.E.6.f.2	Work Practices		Describes actions taken that might be considered inconsistent with the startup, shutdown, or malfunction plan.	Record Review	Y	C	
V.E.6.g	Work Practices	§2103.12.h.6; §63.310(f)	The permittee shall maintain a record of internal reports which form the basis of each malfunction notification under Condition V.E.6.e above.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.6.h	Work Practices	§2103.12.h.6; §63.310(g)	To satisfy the requirements of §63.310 to develop a startup, shutdown, and malfunction plan, the permittee may use the standard operating procedures manual for the battery, provided the manual meets all the requirements in §63.310 and is made available for inspection at reasonable times when requested by the Department.	Record Review	Y	C	
V.E.6.i	Work Practices	§2103.12.h.6; §63.310(h)	The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan:	Administrative Requirement	Y	C	
V.E.6.i.1	Work Practices		Does not address a startup, shutdown, or malfunction event that has occurred;	Record Review	Y	C	
V.E.6.i.2	Work Practices		Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; or	Record Review	Y	C	
V.E.6.i.3	Work Practices		Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.	Record Review	Y	C	
V.E.6.j	Work Practices	§2103.12.h.6; §63.310(i)	If the permittee demonstrates to the satisfaction of the Department that a startup, shutdown, or malfunction has occurred, then an observation occurring during such startup, shutdown, or malfunction shall not:	Administrative Requirement	Y	C	
V.E.6.j.1	Work Practices		Constitute a violation of relevant requirements of 40 CFR 63, Subpart L;	Record Review	Y	C	
V.E.6.j.2	Work Practices		Be used in any compliance determination under Conditions V.E.6.c through V.E.6.j above; or	Record Review	Y	C	
V.E.6.j.3	Work Practices		Be considered for purposes of Condition IV.27 above, until the Department has resolved the claim that a startup, shutdown, or malfunction has occurred. If the Department determines that a startup, shutdown, or malfunction has not occurred, such observations may be used for purposes of Condition IV.27 above regardless of whether the permittee further contests such determination. The permittee's receipt of written notification from the Department that a startup, shutdown, or malfunction has not occurred will serve, where applicable under Condition IV.27 above, as written notification from the certified observer that an exceedance has occurred.	Record Review	Y	C	
V.E.6.k	Work Practices	§2103.12.h.6; §63.7294(a)	The permittee shall prepare and operate at all times according to a written work practice plan for soaking. Each plan must include measures and procedures to:	Record Review	Y	C	
V.E.6.k.1	Work Practices		Train topside workers to identify soaking emissions that require corrective actions.	Record Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.E.6.k.2	Work Practices		Damper the oven off the collecting main prior to opening the standpipe cap.	Record Review	Y	C	
V.E.6.k.3	Work Practices		Determine the cause of soaking emissions that do not ignite automatically, including emissions that result from raw coke oven gas leaking from the collecting main through the damper, and emissions that result from incomplete coking.	Record Review	Y	C	
V.E.6.k.4	Work Practices		If soaking emissions are caused by leaks from the collecting main, take corrective actions to eliminate the soaking emissions. Corrective actions may include, but are not limited to, reseating the damper, cleaning the flushing liquor piping, using aspiration, putting the oven back on the collecting main, or igniting the emissions.	Record Review	Y	C	
V.E.6.k.5	Work Practices		If soaking emissions are not caused by leaks from the collecting main, notify a designated responsible party. The responsible party must determine whether the soaking emissions are due to incomplete coking. If incomplete coking is the cause of the soaking emissions, you must put the oven back on the collecting main until it is completely coked or you must ignite the emissions.	Record Review	Y	C	
V.E.6.l	Work Practices	§2103.12.h.6; §63.7294(b)	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standard for soaking in Condition V.E.6.k above.	Record Review	Y	C	
V.E.6.m	Work Practices	§2103.12.h.6; §63.7310(a)	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Physical Inspection, Process Knowledge & Record Review	Y	C	
V.E.7.a	Additional Requirements	§2103.12.d & Consent Order and Agreement (COA) Third Amendment, July 6, 2011, Condition IV(d) & (e)	The permittee shall achieve continuous compliance with the combustion stack opacity limits in §2105.21.f.3 and §2105.21.f.4 for Batteries 19 and 20 according to the following compliance plan schedule:	Administrative Requirement	Y	C	
V.E.7.a.1	Additional Requirements		Replace additional walls and end flues on Batteries No 19 and 20 by December 31, 2012 and October 31, 2014 respectively;	Record Review	Y	C	
V.E.7.a.2	Additional Requirements		Achieve compliance with the opacity limits in §2105.21.f.3 and §2105.21.f.4 for Batteries 19 and 20 by December 31, 2012 and October 31, 2014 respectively.	Record Review	Y	C	
V.E.7.b	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.1.a	Restrictions	[§2105.21.e; Installation Permit 0052-I005a]	The permittee shall not operate, or allow to be operated, Battery 19 or Battery 20 coke ovens unless there is installed on each battery a pushing emission control baghouse which is designed to reduce fugitive emissions from pushing to the minimum attainable through the use of BACT, nor shall the permittee operate, or allow to be operated Battery 19 or Battery 20 coke ovens in such manner that:	Engineering Judgement	Y	C	
V.F.1.a.1	Restrictions	[§2105.21.e.2; Installation Permit 0052-I005a]	At any time, the particulate mass emission rate from the pushing emission control system device, for Battery No. 19 exceeds a rate determined by an outlet concentration of 0.010 grains per dry standard cubic foot:	Direct Measurement/Records Review	Y	C	
V.F.1.a.2	Restrictions	[§2105.21.e.3; Installation Permit 0052-I005a.]	At any time, the particulate mass emission rate from the pushing emission control system device, for Battery No. 20 exceeds a rate determined by an outlet concentration of 0.04 pounds per ton of coke:	Direct Measurement/Records Review	Y	C	
V.F.1.a.3	Restrictions	(§2105.21.e.4; Installation Permit 0052-I005a)	Fugitive pushing emissions or emissions from the pushing emission control system device outlet equal or exceed an opacity of 20% at any time, except if the Department determines in writing, upon written application from the person responsible for the coke ovens setting forth all information needed to make such determination, that such emissions are of only minor significance with respect to causing air pollution and do not prevent or interfere with the attainment or maintenance of any ambient air quality standard (any such determination shall be submitted as a proposed revision to Allegheny County's portion of the SIP).	Physical Inspection/Procedures	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.1.b	Restrictions	[§2105.21.e.6]	The permittee shall not operate, or allow to be operated at any time, coke oven batteries in such manner that the hot coke fails to be held under the hood of the pushing emission control device for at least 67 seconds immediately after the pusher ram begins to move and the damper to the PEC device is opened or for at least 15 seconds immediately following the fall of the last of the coke into the hot car, whichever is longer. This provision shall only be effective during the period from 30 days following the issuance of written notice by the Department to the permittee of such battery that EPA has required the implementation of the contingency measures under the portion of the PM-10 SIP for the Liberty Borough/Clairton area, until issuance of a written notice by the Department that such measures are no longer required.	Process Knowledge/Records Review	Y	C	
V.F.1.c	Restrictions	[§2105.03; Installation Permit 0052-I005a]	The permittee shall not operate, or allow to be operated Battery 19 or Battery 20 unless the Battery 19 and 20 PEC System baghouse is properly installed, operated and maintained according to the following conditions, at all times:	Engineering Judgement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.1.c.1	Restrictions		Emissions due to the pushing of Battery 19 and 20 coke ovens shall be vented through the PEC System baghouse dust collector.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.1.c.2	Restrictions		The baghouse shall be equipped with automatic cleaning controls and instrumentation that shall continuously measure the differential pressure drop across the baghouse to within 5.0% of the measuring span of the device.	Engineering Judgement	Y	C	
V.F.1.c.3	Restrictions		The normal operating differential pressure drop range across each baghouse module shall be maintained between a minimum of 2 inches w.c. and maximum of 10 inches w.c.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.1.c.4	Restrictions		When the pressure drop goes beyond the range specified in Condition V.F.1.c.3) above, cleaning, maintenance and other corrective actions shall be conducted, as necessary, to return the pressure drop to the specified range.	Process Knowledge	Y	C	
V.F.1.d	Restrictions	[§2103.12.h.6; §63.7290(a)]	The permittee shall not discharge to the atmosphere emissions of particulate matter from a control device applied to pushing emissions from a coke oven battery that exceed 0.02 pound per ton (lb/ton) of coke :	Direct Measurement/Records Review	Y	C	
V.F.1.e	Restrictions	[§2103.12.h.6; §63.7290(b)(3)]	For each PEC System the permittee shall:	Administrative Requirement	Y	C	
V.F.1.e.1	Restrictions		Maintain the minimum daily average fan motor amperes at 217 or above the minimum level established during the most recent performance test; or	Process Knowledge/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.1.e.2	Restrictions		Maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test.	Process Knowledge/Records Review	NA	NA	
V.F.1.f	Restrictions	[§2103.12.h.6; §63.7333 (a)]	For each control device applied to pushing emissions and subject to the emission limit in V.F.1.d above, the permittee shall demonstrate continuous compliance by meeting the requirements in Conditions V.F.1.f.1) and V.F.1.f.2) below:	Engineering Judgement	Y	C	
V.F.1.f.1	Restrictions		Maintaining emissions of particulate matter at or below 0.02 pound per ton (lb/ton) of coke if a moveable hood vented to a stationary control device is used to capture emissions; and	Direct Measurement/Records Review	Y	C	
V.F.1.f.2	Restrictions		Conducting subsequent performance tests to demonstrate continuous compliance no less frequently than once every two years.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.F.1.g	Restrictions	[§2105.03 and Installation Permit 0052-I005a]	Emissions from the Battery 19 and 20 PEC System baghouse shall not exceed the limits listed in Table V-F-1 at any time:	Direct Measurement/Emission Calcs	Y	C	
V.F.1.g	Restrictions		POLLUTANT GR/DSCF HOURLY LIMIT(lb/hr) ANNUAL LIMIT(ton/yr)				
V.F.1.g	Restrictions		PM 0.010 1.67 7.18		Y	C	
V.F.1.g	Restrictions		PM-10 0.010 1.67 7.18		Y	C	
V.F.1.g	Restrictions		A year is defined as any consecutive 12-month period.				
V.F.1.h	Restrictions	[§2013.12.h]	Battery No. 20 compliance with PM/PM ₁₀ emission limit in Condition V.F.1.g above, assures compliance with Condition V.F.1.a.2)	Records Review	Y	C	
V.F.1.i	Restrictions	[§2013.12.h]	Batteries No. 19 & No. 20 compliance with PM/PM ₁₀ emission limit in Condition V.F.1.g above assures compliance with the Coke Oven MACT emission limit in Condition V.F.1.d above.	Records Review	Y	C	
V.F.2.a	Testing	[□§2108.02, Installation Permit 0052-I005a; §63.7321]	The permittee shall have baghouse emission stack tests conducted for PM, PM10 and PM2.5 at least once every two years using EPA Methods No.1 through No.5, 201A and 202 (or other method specified), and performed according to Site Level Condition IV.13.	Records Review	Y	C	
V.F.2.b	Testing	[□§2108.02, Installation Permit 0052-I005a]	Visible emissions observations of the baghouse stack exhaust and fugitive pushing emissions shall be conducted at least once every two years, as specified in Section 109 of the Department's source testing manual, and be done simultaneously with the baghouse stack tests.	Records Review	Y	C	
V.F.2.c	Testing	[§2103.12.h.6; §63.7322(a)]	The permittee shall conduct each performance test according to the requirements in Condition V.F.2.d below.	Records Review	Y	C	
V.F.2.d	Testing	[§2103.12.h.6; §63.7322(b)]	To determine compliance with the process weighted mass rate of particulate matter (lb/ton of coke) in Condition V.F.1.d.above use the following test methods and procedures:	Engineering Judgement	Y	C	
V.F.2.d.1	Testing	[§2103.12.h.6; §63.7322(b)(1)]	Determine the concentration of particulate matter according to the following test methods in Appendix A to 40 CFR Part 60.	Records Review	Y	C	
V.F.2.d.1.a	Testing		Method 1 to select sampling port locations and the number of traverse points. Sampling sites must be located at the outlet of the control device and prior to any releases to the atmosphere.	Records Review	Y	C	
V.F.2.d.1.b	Testing		Method 2, 2F, or 2G to determine the volumetric flow rate of the stack gas.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/N	Type C/I	
V.F.2.d.1.c	Testing		Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.	Records Review	Y	C	
V.F.2.d.1.d	Testing	Ep	Method 4 to determine the moisture content of the stack gas.	Records Review	Y	C	
V.F.2.d.1.e	Testing		Method 5 or 5D, as applicable, to determine the concentration of front half particulate matter in the stack gas.	Records Review	Y	C	
V.F.2.d.2	Testing	[\§2103.12.h.6; §63.7322(b)(2)]	During each particulate matter test run, sample only during periods of actual pushing when the capture system fan and control device are engaged. Collect a minimum sample volume of 50 dry standard cubic feet of gas during each test run. Three valid test runs are needed to comprise a performance test. Each run must start at the beginning of a push and finish at the end of a push (i.e., sample for an integral number of pushes) .	Records Review	Y	C	
V.F.2.d.3	Testing	[\§2103.12.h.6; §63.7322(b)(3)]	Determine the total combined weight in tons of coke pushed during the duration of each test run according to the procedures in your source test plan for calculating coke yield from the quantity of coal charged to an individual oven.	Records Review	Y	C	
V.F.2.d.4	Testing	[\§2103.12.h.6; §63.7322(b)(4)]	<p>Compute the process-weighted mass emissions (Ep) for each test run using Equation 1 of this section as follows:</p> <p>Where: $Ep = \frac{C \times Q \times T}{P \times K}$</p> <p>Ep = Process weighted mass emissions of particulate matter, lb/ton; C = Concentration of particulate matter, gr/dscf; Q = Volumetric flow rate of stack gas, dscf/hr; T = Total time during a run that a sample is withdrawn from the stack during pushing, hr; P = Total amount of coke pushed during the test run, tons; and K = Conversion factor, 7,000 gr/lb.</p>	Records Review	Y	C	
V.F.2.e	Testing	[\§2103.12.h.6; §63.7323(c)]	For each capture system applied to pushing emissions, the permittee shall establish a site-specific operating limit for the fan motor amperes or volumetric flow rate according to the procedures in Condition V.F.0.e.1) or V.F.0.e.2) below:	Engineering Judgement	Y	C	
V.F.2.e.1	Testing		If you elect the operating limit in V.F.1.e.1) above for fan motor amperes, measure and record the fan motor amperes during each push sampled for each particulate matter test run. Your operating limit is the lowest fan motor amperes recorded during any of the three runs that meet the emission limit.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.2.e.2	Testing		If you elect the operating limit in V.F.1.e.2) above for volumetric flow rate, measure and record the total volumetric flow rate at the inlet of the control device during each push sampled for each particulate matter test run. Your operating limit is the lowest volumetric flow rate recorded during any of the three runs that meet the emission limit.	Records Review	NA	NA	
V.F.2.f	Testing	§2103.12.h.6; §63.7323(e)]	The permittee may change the operating limit for a capture system if you meet the requirements in Conditions V.F.0.f.(1) through (3) below:	Engineering Judgement	Y	C	
V.F.2.f.1	Testing		Submit a written notification to the Department of your request to conduct a new performance test to revise the operating limit.	Report Submission	Y	C	
V.F.2.f.2	Testing		Conduct a performance test to demonstrate that emissions of particulate matter from the control device do not exceed the applicable limit in §63.7290(a).	Records Review	Y	C	
V.F.2.f.3	Testing		Establish revised operating limits according to the applicable procedures in Condition V.F.0.e above.	Records Review	Y	C	
V.F.2.g	Testing	(§2103.12.h.1)	The Department reserves the right to require additional emissions testing sufficient to assure compliance with the terms and conditions of this permit. Such testing shall be performed in accordance with Site Level Condition IV.13 above and Article XXI §2108.02.	Administrative Requirement	Y	C	
V.F.3.a	Monitoring	§2103.12.i; §2103.12.h.1, §2103.12.i and Installation Permit 0052- I005a]	The permittee shall continuously monitor and record the differential pressure drop across each baghouse module.	Direct Measurement	Y	C	
V.F.3.b	Monitoring	§2103.12.i; □Installation Permit 0052- I005a]	The permittee shall inspect the Battery 19 and 20 PEC System baghouse, weekly, to insure compliance with conditions V.F.1.c above.	Records Review	Y	C	
V.F.3.c	Monitoring	§2103.12.i; 63.7291(a)]	The permittee shall meet each of the following requirements in paragraphs V.F.3.c.1) through V.F.3.c.(6)c) below for each coke oven battery.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.c.1	Monitoring		Observe and record the opacity of fugitive pushing emissions from each oven at least once every 90 days. If an oven cannot be observed during a 90-day period due to circumstances that were not reasonably avoidable, you must observe the opacity of the first push of that oven following the close of the 90-day period that is capable of being observed in accordance with the procedures in §63.7334(a), and you must document why the oven was not observed within a 90-day period. All opacity observations of fugitive pushing emissions for batteries with vertical flues must be made using the procedures in §63.7334(a).	Physical Inspection/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.3.c.2	Monitoring		Observe and record the opacity of fugitive pushing emissions for at least four consecutive pushes per battery each day. Exclude any push during which the observer's view is obstructed or obscured by interferences and observe the next available push to complete the set of four pushes. If necessary due to circumstances that were not reasonably avoidable, you may observe fewer than four consecutive pushes in a day; however, you must observe and record as many consecutive pushes as possible and document why four consecutive pushes could not be observed. You may observe and record one or more non-consecutive pushes in addition to any consecutive pushes observed in a day.	Physical Inspection/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.3.c.3	Monitoring		Do not alter the pushing schedule to change the sequence of consecutive pushes to be observed on any day. Keep records indicating the legitimate operational reason for any change in your pushing schedule which results in a change in the sequence of consecutive pushes observed on any day	Records Review	Y	C	
V.F.3.c.4	Monitoring		If the average opacity for any individual push exceeds 30 percent opacity for any short battery or 35 percent opacity for any tall battery, you must take corrective action and/or increase coking time for that oven. You must complete corrective action or increase coking time within either 10 calendar days or the number of days determined using Equation 1 of this section, whichever is greater:	Records Review	Y	C	
			$X = 0.55 * Y \text{ (Eq. 1)}$				
			Where:				
			X = Number of calendar days allowed to complete corrective action or increase coking time; and				
			Y = Current coking time for the oven, hours.				

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
			For the purpose of determining the number of calendar days allowed under Equation 1 of this section, day one is the first day following the day you observed an opacity in excess of 30 percent for any short battery or 35 percent for any tall battery. Any fraction produced by Equation 1 of this section must be counted as a whole day. Days during which the oven is removed from service are not included in the number of days allowed to complete corrective action.	Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.F.3.c.5	Monitoring		The permittee shall demonstrate that:	Administrative Requirement	Y	C	
V.F.3.c.5.a	Monitoring		The corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph V.F.3.c.4) above, observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph V.F.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you must complete additional corrective action and/or increase coking time for that oven within the number of days allowed in paragraph V.F.3.c.4) above.	Physical Inspection/Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.c.5.b	Monitoring		After implementing any additional corrective action and/or increased coking time required under paragraph V.F.3.c.5)a) or V.F.3.c.6)b) below, you must demonstrate that corrective action and/or increased coking time was successful. After a period of time no longer than the number of days allowed in paragraph V.F.3.c.4) above, you must observe and record the opacity of the first two pushes for the oven capable of being observed using the procedures in §63.7334(a). The corrective action and/or increased coking time was successful if the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery. If the corrective action and/or increased coking time was successful, you may return the oven to the 90-day reading rotation described in paragraph V.F.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the corrective action and/or increased coking time was unsuccessful, and you mutive action(s) and/or increased coking time. specified b	Physical Inspection/Records Review	Y	C	
V.F.3.c.5.c	Monitoring		If the corrective action and/or increased coking time was unsuccessful as described in paragraph V.F.3.c.5)b) above, the permittee must repeat the procedures in paragraph V.F.3.c.5)b) above until the corrective action and/or increased coking time is successful. You must report to the permitting authority as a deviation each unsuccessful attempt at corrective action and/or increased coking time under paragraph V.F.3.c.5)b) above.	Records Review	Y	C	
V.F.3.c.6	Monitoring		If at any time the permittee places an oven on increased coking time as a result of fugitive pushing emissions that exceed 30 percent for a short battery or 35 percent for a tall battery, you must keep the oven on the increased coking time until the oven qualifies for decreased coking time using one of the following procedures:	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.c.6.a	Monitoring		To qualify for a decreased coking time for an oven placed on increased coking time in accordance with condition V.F.3.c.4) or V.F.3.c.5) above, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.F.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement other corrective action(s) and/or increased coking time. If you implement action(s) and/or increased coking time. specified by the applicable emission limitations of this permit. the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request.	Physical Inspection/Records Review	Y	C	
V.F.3.c.6.b	Monitoring		If the attempt to qualify for decreased coking time was unsuccessful as described in condition V.F.3.c.6)a) above, you may again attempt to qualify for decreased coking time for the oven. To do this, you must operate the oven on the decreased coking time. After no more than two coking cycles on the decreased coking time, you must observe and record the opacity of the first two pushes that are capable of being observed using the procedures in V.F.3.q or §63.7334(a). If the average opacity for each of the two pushes is 30 percent or less for a short battery or 35 percent or less for a tall battery, you may keep the oven on the decreased coking time and return the oven to the 90-day reading rotation described in condition V.F.3.c.1) above. If the average opacity of either push exceeds 30 percent for a short battery or 35 percent for a tall battery, the attempt to qualify for a decreased coking time was unsuccessful. You must then return the oven to the previously established increased coking time, or implement corrective action(s) and/or increased coking time. specified by the applicable emission limitations of this permit. the repairs. The request shall be deemed approved unless and until such time	Physical Inspection/Records Review	Y	C	
V.F.3.c.6.c	Monitoring		The permittee must report to the permitting authority as a deviation the second and any subsequent consecutive unsuccessful attempts on the same oven to qualify for decreased coking time as described in paragraph V.F.3.c.b) above	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.d	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7291(b)]	As provided in §63.6(g), the permittee may request to use an alternative to the work practice standards in Condition V.F.3.c above.	Administrative Requirement	Y	C	
V.F.3.e	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7300(c)]	The permittee shall prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from coke battery(s). Each plan must address at a minimum the following elements.	Administrative Requirement	Y	C	
V.F.3.e.1	Monitoring		Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). In the event a defect or deficiency is found in the capture system (during a monthly inspection or between inspections), you must complete repairs within 30 days after the date that the defect or deficiency is discovered. If you determine that the repairs cannot be completed within 30 days, you must submit a written request for an extension of time to complete the repairs that must be received by the permitting authority not more than 20 days after the date that the defect or deficiency is discovered. The request must contain a description of the defect or deficiency, the steps needed and taken to correct the problem, the interim steps being taken to mitigate the emissions impact of the defect or deficiency, and a proposed schedule for completing the repairs. The request shall be deemed approved unless and until such time as the permitting authority notifies you that it objects to the request. The permitting authority may consider all relevant factors in deciding whether to approve or deny the request (including feasibility and safety). Each approved schedule must provide for completion of repairs as expeditiously as practicable, and the permitting authority may request modifications to the proposed schedule as part of the	Physical Inspection/Records Review	Y	C	
V.F.3.e.2	Monitoring		Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.e.3	Monitoring		Corrective action for all baghouses applied to pushing emissions. In the event a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete the corrective action as soon as practicable. Actions may include, but are not limited to:	Process Knowledge	Y	C	
V.F.3.e.3.a	Monitoring		Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.	Physical Inspection/Procedures	Y	C	
V.F.3.e.3.b	Monitoring		Sealing off defective bags or filter media.	Process Knowledge	Y	C	
V.F.3.e.3.c	Monitoring		Replacing defective bags or filter media or otherwise repairing the control device.	Process Knowledge	Y	C	
V.F.3.e.3.d	Monitoring		Sealing off a defective baghouse compartment.	Process Knowledge	Y	C	
V.F.3.e.3.e	Monitoring		Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.	Process Knowledge	Y	C	
V.F.3.e.3.f	Monitoring		Shutting down the process producing the particulate emissions	Process Knowledge	Y	C	
V.F.3.f	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7330(a)]	For the PEC system baghouse applied to pushing emissions from a coke oven battery, the permittee shall at all times monitor the relative change in particulate matter loadings using a bag leak detection system according to the requirements in V.F.3.g below and conduct inspections at their specified frequency according to the following requirements:	Direct Measurement/Records Review	Y	C	
V.F.3.f.1	Monitoring		Monitor the pressure drop across each baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual;	Direct Measurement/Records Review	Y	C	
V.F.3.f.2	Monitoring		Confirm that dust is being removed from hoppers through weekly visual inspections or equivalent means of ensuring the proper functioning of removal mechanisms;	Physical Inspection/Procedures	Y	C	
V.F.3.f.3	Monitoring		Check the compressed air supply for pulse-jet baghouses each day;	Physical Inspection/Procedures	Y	C	
V.F.3.f.4	Monitoring		Monitor cleaning cycles to ensure proper operation using an appropriate methodology;	Physical Inspection/Procedures	Y	C	
V.F.3.f.5	Monitoring		Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means;	Physical Inspection/Procedures	Y	C	
V.F.3.f.6	Monitoring		Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneaded or bent) or laying on their sides. You do not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices;	Physical Inspection/Procedures	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.f.7	Monitoring		Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks; and	Physical Inspection/Procedures	Y	C	
V.F.3.f.8	Monitoring		Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	Physical Inspection/Procedures	Y	C	
V.F.3.g	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(a)]	The permittee shall install, operate, and maintain a bag leak detection system on the PEC system baghouse according to the following requirements:	Engineering Judgement	Y	C	
V.F.3.g.1	Monitoring		The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;	Design Parameter	Y	C	
V.F.3.g.2	Monitoring		The system must provide output of relative changes in particulate matter loadings;	Design Parameter	Y	C	
V.F.3.g.3	Monitoring		The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over a preset level. The alarm must be located such that it can be heard by the appropriate plant personnel;	Design Parameter	Y	C	
V.F.3.g.4	Monitoring		Each system that works based on the triboelectric effect must be installed, operated, and maintained in a manner consistent with the guidance document, "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). You may install, operate, and maintain other types of bag leak detection systems in a manner consistent with the manufacturer's written specifications and recommendations;	Engineering Judgement	Y	C	
V.F.3.g.5	Monitoring		To make the initial adjustment of the system, establish the baseline output by adjusting the sensitivity (range) and the averaging period of the device. Then, establish the alarm set points and the alarm delay time;	Engineering Judgement	Y	C	
V.F.3.g.6	Monitoring		Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in your operation and maintenance plan. Do not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless a responsible official certifies, in writing, that the baghouse has been inspected and found to be in good operating condition; and	Administrative Requirement	Y	C	
V.F.3.g.7	Monitoring		Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.	Engineering Judgement	Y	C	
V.F.3.h	Monitoring	§2103.12.i; §2103.12.h.6; §63.7331(b)]	For each CPMS required in V.F.3.m below, you must develop and make available for inspection upon request by the permitting authority a site-specific monitoring plan that addresses the requirements in Conditions V.F.3.h.1) through V.F.3.h.6) below:	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.h.1	Monitoring		Installation of the CPMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);	Direct Measurement/Records Review	Y	C	
V.F.3.h.2	Monitoring		Performance and equipment specifications for the sample interface, the parametric signal analyzer, and the data collection and reduction system;	Design Parameter	Y	C	
V.F.3.h.3	Monitoring		Performance evaluation procedures and acceptance criteria (e.g., calibrations);	Engineering Judgement	Y	C	
V.F.3.h.4	Monitoring		Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8);	Engineering Judgement	Y	C	
V.F.3.h.5	Monitoring		Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and	Engineering Judgement	Y	C	
V.F.3.h.6	Monitoring		Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).	Administrative Requirement	Y	C	
V.F.3.i	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(c)]	The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.	Records Review	Y	C	
V.F.3.j	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(d)]	The permittee shall operate and maintain each CPMS in continuous operation according to the site-specific monitoring plan.	Administrative Requirement	Y	C	
V.F.3.k	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(h)]	If the permittee elects the operating limit in V.F.1.e.1) above for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the fan motor amperes.	Direct Measurement/Records Review	Y	C	
V.F.3.l	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7331(g)]	If the permittee elects the operating limit in V.F.1.e.2) for a capture system applied to pushing emissions, you must install, operate, and maintain a device to measure the total volumetric flow rate at the inlet of the control device.	Direct Measurement/Records Review	NA		
V.F.3.m	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7330(d)]	For each capture system applied to pushing emissions, the permittee shall at all times monitor the fan motor amperes according to the requirements in Condition V.F.3.k above or the volumetric flow rate according to the requirements in Condition V.F.3.l above.	Direct Measurement/Records Review	NA		
V.F.3.n	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7332(a)]	Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously (or collect data at all required intervals) at all times the affected source is operating.	Direct Measurement/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.o	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7332(b)]	The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels, or in fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitor to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	Records Review	Y	C	
V.F.3.p	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7333(d)]	For each capture system applied to pushing emissions and subject to the operating limit in Condition V.F.1.e above, the permittee shall demonstrate continuous compliance by meeting the requirements in Condition V.F.3.p.1) or V.F.3.p.2) below:	Administrative Requirement			
V.F.3.p.1	Monitoring		If the permittee elects the operating limit for fan motor amperes in V.F.1.e.1) below:	Administrative Requirement	Y	C	
V.F.3.p.1.a	Monitoring		Maintaining the daily average fan motor amperes at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/Records Review	Y	C	
V.F.3.p.1.b	Monitoring		Checking the fan motor amperes at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/Records Review	Y	C	
V.F.3.p.2	Monitoring		If the permittee elects the operating limit for volumetric flow rate in V.F.1.e.2) below:	Administrative Requirement	Y	C	
V.F.3.p.2.a	Monitoring		Maintaining the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial or subsequent performance test; and	Direct Measurement/Records Review	Y	C	
V.F.3.p.2.b	Monitoring		Checking the volumetric flow rate at least every 8 hours to verify the daily average is at or above the minimum level established during the initial or subsequent performance test and recording the results of each check.	Direct Measurement/Records Review	Y	C	
V.F.3.q	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7334(a)]	The permittee shall demonstrate continuous compliance with the work practice standards for fugitive pushing emissions according to the following requirements:	Administrative Requirement	Y	C	
V.F.3.q.1	Monitoring		Observe and record the opacity of fugitive emissions for four consecutive pushes per operating day, except you may make fewer or non-consecutive observations as permitted by Condition V.F.3.c.2) above. Maintain records of the pushing schedule for each oven and records indicating the legitimate operational reason for any change in the pushing schedule according to Condition V.F.3.c.3) above.	Physical Inspection/Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.q.2	Monitoring		Observe and record the opacity of fugitive emissions from each oven in a battery at least once every 90 days. If an oven cannot be observed during a 90-day period, observe and record the opacity of the first push of that oven following the close of the 90-day period that can be read in accordance with the procedures in paragraphs V.F.3.q.1) through V.F.3.q.8).	Physical Inspection/Records Review	Y	C	
V.F.3.q.3	Monitoring		Make all observations and calculations for opacity observations of fugitive pushing emissions in accordance with Method 9 in Appendix A to 40 CFR Part 60 using a Method 9 certified observer unless you have an approved alternative procedure under V.F.3.q.7) below	Physical Inspection/Procedures	Y	C	
V.F.3.q.4	Monitoring		Record pushing opacity observations at 15-second intervals as required in section 2.4 of Method 9 (Appendix A to 40 CFR Part 60). The requirement in section 2.4 of Method 9 for a minimum of 24 observations does not apply, and the data reduction requirements in section 2.5 of Method 9 do not apply. The requirement in §63.6(h)(5)(ii) for obtaining at least 3 hours of observations (thirty 6-minute averages) to demonstrate initial compliance does not apply.	Physical Inspection/Procedures	Y	C	
V.F.3.q.5	Monitoring		If fewer than six but at least four 15-second observations can be made, use the average of the total number of observations to calculate average opacity for the push. Missing one or more observations during the push (e.g., as the quench car passes behind a building) does not invalidate the observations before or after the interference for that push. However, a minimum of four 15-second readings must be made for a valid observation.	Physical Inspection	Y	C	
V.F.3.q.6	Monitoring		Begin observations for a push at the first detectable movement of the coke mass. End observations of a push when the quench car enters the quench tower.	Physical Inspection/Records Review	Y	C	
V.F.3.q.6.a	Monitoring		Observe fugitive pushing emissions from a position at least 10 meters from the quench car that provides an unobstructed view and avoids interferences from the topside of the battery. This may require the observer to be positioned at an angle to the quench car rather than perpendicular to it. Typical interferences to avoid include emissions from open standpipes and charging. Observe the opacity of emissions above the battery top with the sky as the background where possible. Record the oven number of any push not observed because of obstructions or interferences.	Physical Inspection/Records Review	Y	C	
V.F.3.q.6.b	Monitoring		You may reposition after the push to observe emissions during travel if necessary.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.3.q.7	Monitoring		If it is infeasible to implement the procedures in Conditions V.F.3.q.1) through V.F.3.q.6) above for an oven due to physical obstructions, nighttime pushes, or other reasons, you may apply to the Department for permission to use an alternative procedure. The application must provide a detailed explanation of why it is infeasible to use the procedures in Conditions V.F.3.q.(1) through V.F.3.q.6), identify the oven and battery numbers, and describe the alternative procedure. An alternative procedure must identify whether the coke in that oven is not completely coked, either before, during, or after an oven is pushed.	Administrative Requirement	Y	C	
V.F.3.q.8	Monitoring		For each oven observed that exceeds an opacity of 30 percent for any short battery or 35 percent for any tall battery, you must take corrective action and/or increase the coking time in accordance with Condition V.F.3.c above. Maintain records documenting conformance with Condition V.F.3.c above.	Process Knowledge/Records Review	Y	C	
V.F.3.r	Monitoring	[§2103.12.i; §2103.12.h.6; §63.7335(c)]	To demonstrate continuous compliance with the operation and maintenance requirements for a baghouse applied to pushing emissions from a coke oven battery in V.F.3.g above, the permittee shall inspect and maintain each baghouse according to the requirements in Conditions V.F.3.g.1) through g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in Condition V.F.3. g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/Records Review	Y	C	
V.F.4.a	Record keeping	(§2103.12.j)	The results of the inspections required by condition V.F.3.b above shall be recorded weekly along with the differential pressure drop across the baghouse.	Records Review	Y	C	
V.F.4.b	Record keeping	[§2103.12.j, Installation Permit 0052-I005a]	Episodes of non-compliance with conditions V.F.1.a through V.F.1.g and V.F.3.b above and corrective actions taken shall be recorded upon occurrence.	Records Review	Y	C	
V.F.4.c	Record keeping	[§2103.12.j, Installation Permit 0052-I005a]	The permittee shall keep records of each baghouse maintenance inspection and repair, replacement or other corrective action.	Records Review	Y	C	
V.F.4.d	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7342(a)]	The permittee shall keep the following records:	Records Review	Y	C	

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				Method	Y/ N	Type C/I	
V.F.4.d.1	Record keeping		A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Records Review	Y	C	
V.F.4.d.2	Record keeping		The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.	Records Review	Y	C	
V.F.4.d.3	Record keeping		Records of performance tests, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).	Records Review	Y	C	
V.F.4.e	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7342(b)]	For each COMS or CEMS, the permittee shall keep the following records.	Administrative Requirement	Y	C	
V.F.4.e.1	Record keeping		Records described in §63.10(b)(2)(vi) through (xi).	Records Review	Y	C	
V.F.4.e.2	Record keeping		Monitoring data for COMS during a performance evaluation as required in §63.6(h)(7)(i) and (ii).	Records Review	Y	C	
V.F.4.e.3	Record keeping		Previous (that is, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).	Records Review	Y	C	
V.F.4.e.4	Record keeping		Records of the date and time that each deviation started and stopped and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.F.4.f	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7342(c)]	The permittee shall keep the records in §63.6(h)(6) for visual observations.	Records Review	Y	C	
V.F.4.g	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7342(d)]	The permittee shall keep the records required in Conditions V.F.3.p) through V.F.3.r and V.F.4.k through V.F.4.m below to show continuous compliance with each emission limitation, work practice standard, and operation and maintenance requirement that applies to you.	Records Review	Y	C	
V.F.4.h	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7343(a)]	The permittee shall keep records in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Records Review	Y	C	
V.F.4.i	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7343(b); §2103.12.j, Installation Permit 0052-I005a]	As specified in §63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Records Review	Y	C	
V.F.4.j	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7343(c)]	The permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records offsite for the remaining 3 years.	Records Review	Y	C	

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				Method	Y/ N	Type C/I	
V.F.4.k	Record keeping	[§2103.12.j; §2103.12.h.6; §63.7335(b)]	For each coke oven battery with a capture system or control device applied to pushing emissions, the permittee shall demonstrate continuous compliance with the operation and maintenance requirements in Condition V.F.3.e above by meeting the following requirements:	Records Review	Y	C	
V.F.4.k.1	Record keeping		Making monthly inspections of capture systems according to Condition V.F.3.e.1) above and recording all information needed to document conformance with these requirements;	Physical Inspection/Records Review	Y	C	
V.F.4.k.2	Record keeping		Performing preventative maintenance for each control device according to Condition V.F.3.e.2) above and recording all information needed to document conformance with these requirements; and	Process Knowledge/Records Review	Y	C	
V.F.4.k.3	Record keeping		Initiating and completing corrective action for a bag leak detection system alarm according to Condition V.F.3.e.3) above and recording all information needed to document conformance with these requirements. This includes records of the times the bag leak detection system alarm sounds, and for each valid alarm, the time you initiated corrective action, the corrective action(s) taken, and the date on which corrective action is completed.	Process Knowledge/Records Review	Y	C	
V.F.4.l	Record keeping	[§2103.12.j; 63.7335(c)]	The permittee shall inspect and maintain the pushing emission control baghouse as required in V.F.3.g.1) through V. F.3.g.7) above and record all information needed to document conformance with these requirements. If you increase or decrease the sensitivity of the bag leak detection system beyond the limits specified in V.F.3.g.6) above, you must include a copy of the required written certification by a responsible official in the next semiannual compliance report.	Physical Inspection/Records Review	Y	C	
V.F.4.m	Record keeping	[§2103.12.j; 63.7335(d)]	The permittee shall maintain a current copy of the operation and maintenance plans required in §63.7300(b) and (c) onsite and available for inspection upon request. The plans shall be kept for the life of the affected source or until the affected source is no longer subject to the requirements of 40 CFR Part 63, Subpart CCCCC.	Records Review	Y	C	
V.F.5.a	Reporting Requirements	[§2103.12.k, Installation Permit 0052-I005a]	The permittee shall report all instances of non-compliance with conditions V.F.1.a through V.F.1.g, V.F.3.a and V.F.3.b above, and V.F.4.a through V.F.4.c above along with all corrective action taken to restore the subject equipment to compliance, to the Department every six months.	Report Submission	Y	C	
V.F.5.b	Reporting Requirements	[§2103.12.k, Installation Permit 0052-I005a]	Reporting instances of non-compliance in accordance with condition V.F.5.a above, does not relieve the permittee of the requirement to report breakdowns in accordance with IV.8 above, if appropriate.	Report Submission	Y	C	

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				Method	Y/ N	Type C/I	
V.F.5.c	Reporting Requirements	§2103.12.k; §2109.03 and Enforcement Order 202.E, 3/28/90]	No later than twenty (20) days after the end of each month, a written report of a summary of the following during each such month shall be submitted to the Department:	Report Submission	Y	C	
V.F.5.c.1	Reporting Requirements		For each individual coke battery or group of batteries served by the same push emission control system, and for all coke batteries combined:	Engineering Judgement	Y	C	
V.F.5.c.1.a	Reporting Requirements		The total number of pushes for the month;	Records Review	Y	C	
V.F.5.c.1.b	Reporting Requirements		The total number of controlled pushes for the month; and the monthly percentage availability (on-line time) of the pushing control system, based on the total number of pushes and total number of controlled pushes.	Records Review	Y	C	
V.F.5.c.2	Reporting Requirements		For each outage of the pushing control system at each individual coke battery or group of batteries served by the same pushing emission control system:	Records Review	Y	C	
V.F.5.c.2.a	Reporting Requirements		The batteries affected;	Records Review	Y	C	
V.F.5.c.2.b	Reporting Requirements		The starting and ending dates and times;	Records Review	Y	C	
V.F.5.c.2.c	Reporting Requirements		The total time of each outage, to the nearest tenth of an hour;	Records Review	Y	C	
V.F.5.c.2.d	Reporting Requirements		The corresponding Department Breakdown Number; and the reason(s) or cause(s) for the outage.	Records Review	Y	C	
V.F.5.d	Reporting Requirements	§2103.12.k; §2103.12.h.6; §63.7336(a)]	The permittee shall report each instance in which each emission limitation in Conditions V.F.1.d, V.F.1.e and V.F.1.f was not met. This includes periods of startup, shutdown, and malfunction. The permittee shall also report each instance in which the permittee did not meet each work practice standard or operation and maintenance requirement in Conditions V.F.6.a, V.F.6.b and V.F.6.c. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements of 40 CFR Part 63, Subpart CCCCC. These deviations must be reported according to the requirements in V.F.5.h through V.F.5.k below.	Report Submission	Y	C	
V.F.5.e	Reporting Requirements	§2103.12.k; §2103.12.h.6; §63.7336(b)]	During periods of startup, shutdown, and malfunction, you must operate in accordance with your startup, shutdown, and malfunction plan.	Administrative Requirement	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.5.e.1	Reporting Requirements		Consistent with §63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Department's satisfaction that you were operating in accordance with the startup, shutdown, and malfunction plan.	Engineering Judgement	Y	C	
V.F.5.e.2	Reporting Requirements		The Department will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).	Administrative Requirement	Y	C	
V.F.5.f	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7340(a)]	The permittee shall submit all of the notifications in §63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4), and 63.9(b) through (h) that apply to you by the specified dates.	Report Submission	Y	C	
V.F.5.g	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7340(d)]	If you are required to conduct a performance test, the permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1).	Report Submission	Y	C	
V.F.5.h	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7341(a)]	Unless the Department has approved a different schedule, the permittee must submit semiannual compliance reports for the PEC stacks to the Department according to the requirements in Conditions V.F.5.h.1) through V.F.5.h.2) below:	Report Submission	Y	C	
V.F.5.h.1	Reporting Requirements		Each semiannual compliance report shall cover the semiannual reporting period as specified in General Condition III.15.d above. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Administrative Requirement	Y	C	
V.F.5.h.2	Reporting Requirements		For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the Department has established instead of according to the dates in Conditions V.F.5.h.1) above.	Administrative Requirement	Y	C	
V.F.5.i	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7341(c)]	Each semiannual compliance report must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. The reports must include the information in V.F.5.i.1) through V.F.5.i.3) below, and as applicable, Conditions V.F.5.i.4) through V.F.5.i.8) below.	Records Review	Y	C	
V.F.5.i.1	Reporting Requirements		Company name and address.	Records Review	Y	C	

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				Method	Y/ N	Type C/I	
V.F.5.i.2	Reporting Requirements		Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Records Review	Y	C	
V.F.5.i.3	Reporting Requirements		Date of report and beginning and ending dates of the reporting period.	Records Review	Y	C	
V.F.5.i.4	Reporting Requirements		If you had a startup, shutdown, or malfunction during the reporting period and the permittee took actions consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in §63.10(d)(5)(i).	Records Review	Y	C	
V.F.5.i.5	Reporting Requirements		If there were no deviations from the continuous compliance requirements in Conditions V.F.3.p through V.F.3.r above and V.F.4.k through V.F.4.m above, a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.	Records Review	Y	C	
V.F.5.i.6	Reporting Requirements		If there were no periods during which a continuous monitoring system (including COMS, continuous emission monitoring system (CEMS), or CPMS) was out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which a continuous monitoring system was out-of-control during the reporting period.	Records Review	Y	C	
V.F.5.i.7	Reporting Requirements		For each deviation from an emission limitation in 40 CFR 63, Subpart CCCCC and for each deviation from the requirements for work practice standards in this 40 CFR Part 63, Subpart CCCCC that occurs at an affected source where the permittee is not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in Conditions V.F.5.i.4), V.F.5.i.7)a) and V.F.5.i.7)b) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.F.5.i.7.a	Reporting Requirements		The total operating time of each affected source during the reporting period.	Records Review	Y	C	
V.F.5.i.7.b	Reporting Requirements		Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.	Records Review	Y	C	

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				Method	Y/ N	Type C/I	
V.F.5.i.8	Reporting Requirements		For each deviation from an emission limitation occurring at an affected source where the permittee is using a continuous monitoring system (including COMS, CEMS, or CPMS) to comply with the emission limitation 40 CFR 63, Subpart CCCCC, the permittee must include the information in Conditions V.F.5.i.4), V.F.5.i.8)a) through V.F.5.i.8)l) below. This includes periods of startup, shutdown, and malfunction.	Records Review	Y	C	
V.F.5.i.8.a	Reporting Requirements		The date and time that each malfunction started and stopped.	Records Review	Y	C	
V.F.5.i.8.b	Reporting Requirements		The date and time that each continuous monitoring system (including COMS, CEMS, or CPMS) was inoperative, except for zero (low-level) and high-level checks.	Records Review	Y	C	
V.F.5.i.8.c	Reporting Requirements		The date, time, and duration that each continuous monitoring system (including COMS, CEMS, or CPMS) was out-of-control, including the information in §63.8(c)(8).	Records Review	Y	C	
V.F.5.i.8.d	Reporting Requirements		The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Records Review	Y	C	
V.F.5.i.8.e	Reporting Requirements		A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.	Records Review	Y	C	
V.F.5.i.8.f	Reporting Requirements		A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.	Records Review	Y	C	
V.F.5.i.8.g	Reporting Requirements		A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during the reporting period.	Records Review	Y	C	
V.F.5.i.8.h	Reporting Requirements		An identification of each HAP that was monitored at the affected source.	Records Review	Y	C	
V.F.5.i.8.i	Reporting Requirements		A brief description of the process units.	Records Review	Y	C	
V.F.5.i.8.j	Reporting Requirements		A brief description of the continuous monitoring system.	Records Review	Y	C	
V.F.5.i.8.k	Reporting Requirements		The date of the latest continuous monitoring system certification or audit.	Records Review	Y	C	

Title V Citation	Category	Regulation	Requirement	Compliance			Comments
				Method	Y/ N	Type C/I	
V.F.5.i.8.l	Reporting Requirements		A description of any changes in continuous monitoring systems, processes, or controls since the last reporting period.	Engineering Judgement	Y	C	
V.F.5.j	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7341(d)]	If the permittee had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report according to the requirements in §63.10(d)(5)(ii).	Report Submission	Y	C	
V.F.5.k	Reporting Requirements	[§2103.12.k; §2103.12.h.6; §63.7341(e)]	If the permittee submits a compliance report for an affected source along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63, Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation you may have to report deviations from permit requirements to the Department.	Administrative Requirement	Y	C	
V.F.6.a	Work Practice Standards	[§2103.12.h.6; §63.7310(c)].	The permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63, Subpart A, §63.6(e)(3).	Engineering Judgement	Y	C	
V.F.6.b	Work Practice Standards	[§2103.12.h.6; §63.7300(a)]	As required by §63.6(e)(1)(i), the permittee shall operate and maintain each coke battery including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by 40 CFR Part 63, Subpart CCCCC.	Process Knowledge	Y	C	
V.F.6.c	Work Practice Standards	[§2103.12.h.6; §63.7310(a)]	The permittee shall be in compliance with the emission limitations, work practice standards, and operation and maintenance requirements of 40 CFR 63, Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in §63.2.	Records Review	Y	C	
V.F.7	Additional Requirements		The definitions in 40 CFR 63.7352 are hereby incorporated into this permit by reference	Administrative Requirement	Y	C	

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				Method	Y/ N	Type C/I	
V.G.1.a	Restrictions	§2103.12.h.6; §63.307(a)(1)	The permittee shall install, operate and maintain a bypass/bleeder stack flare system in Coke Oven Battery B that is capable of controlling 120 percent of the normal gas flow generated by Battery B.	Process Knowledge & Physical Inspection	Y	C	
V.G.1.b	Restrictions	[§2103.12.h.6; 63.307(a)(2)	Coke oven emissions shall not be vented to the atmosphere through bypass/bleeder stacks, except through the flare system or the alternative control device as described in V.G.1.c below.	Process Knowledge & Physical Inspection	Y	C	
V.G.1.c	Restrictions	§2103.12.h.6; §63.307(d)	As an alternative to the installation, operation, and maintenance of a flare system as required in Conditions V.G.1.b above, the owner or operator may petition the Administrator and the Department for approval of an alternative control device or system that achieves at least 98 percent destruction or control of coke oven emissions vented to the alternative control device or system.	Administrative Requirement	Y	C	
V.G.1.d	Restrictions	§2103.12.h.6; §63.307(b)(1)	The emergency bypass/bleeder stack flare system for each battery shall be designed for a net heating value of 240 Btu per standard cubic feet (Btu/scf).	Process Knowledge & Physical Inspection	Y	C	
V.G.1.e	Restrictions	§2103.12.h.6; §63.307(b)(2); §63.307(b)(4) and §63.309(h)(2)	Each flare shall have a continuously operable pilot flame that is present at all times as determined by a thermocouple or any other equivalent device.	Process Knowledge & Physical Inspection	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.G.1.f	Restrictions	§2103.12.h.6; §63.310(a)	At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the coke oven batteries and its pollution control equipment required under 40 CFR 63, Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to these requirements shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred.	Records Review	Y	C	
V.G.1.g	Restrictions	§2103.12.h.6; §63.307(c) and §63.309(h)(1)	Each flare installed to meet the requirements of Conditions V.G.1.a through V.G.1.e above shall be operated with no visible emissions, as determined by Method 22 in Appendix A of 40 CFR Part 60, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours with an observation period of 2 hours.	Direct Measurement & Records Review	Y	C	

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				Method	Y/N	Type C/I	
V.G.1.h	Restrictions	§2105.21.h; §2105.21.h.4	The permittee shall not operate, or allow to be operated, any source in such manner that unburned coke oven gas is emitted into the open air. In addition, the permittee shall not flare, mix, or combust coke oven gas, or allow such gas to be flared, mixed or combusted unless the concentration of sulfur compounds, measured as hydrogen sulfide, in such gas is less than or equal to 40 grains per hundred dry standard cubic feet of coke oven gas produced by Clairton Works, when all sulfur emissions from the Claus Sulfur Recovery Plant and the tail gas cleaning equipment thereon, expressed as equivalent H ₂ S are added to the measured H ₂ S. The concentration of sulfur compounds specified shall include the tail-gas sulfur, measured as hydrogen sulfide, emitted from sulfur removal equipment.	Direct Measurement & Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.G.1.i	Restrictions	§2103.12.h.6; §63.304(b)(2)	The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions that exceed any of the following emission limitations:	Administrative Requirement	Y	C	
V.G.1.i.1	Restrictions		4.0 percent leaking coke oven doors as determined by the procedures in V.G.3.c.1) below;	Direct Measurement & Records Review	Y	C	
V.G.1.i.2	Restrictions		0.4 percent leaking topside port lids, as determined by the procedures in V.G.3.c.1) below;	Direct Measurement & Records Review	Y	C	
V.G.1.i.3	Restrictions		2.5 percent leaking offtake system(s), as determined by the procedures in V.G.3.c.1) below; and	Direct Measurement & Records Review	Y	C	
V.G.1.i.4	Restrictions		12 seconds of visible emissions per charge, as determined by the procedures in V.G.3.c.2) below.	Direct Measurement & Records Review	Y	C	
V.G.1.j	Restrictions	§2103.12.h.6; §63.306(c)(1)(i)	The permittee shall operate according to the work practice plan, required in Condition IV.27 above following the second independent exceedance of the visible emission limitation for the emission point in any consecutive 6-month period, by no later than 3 days after receipt of written notification of the second such exceedance from the certified observer.	Records Review	Y	C	
V.G.1.k	Restrictions	§2105.21.a.1	The permittee shall not operate, or allow to be operated any Battery B coke ovens in such manner that the aggregate of visible charging emissions exceeds a total of 55 seconds during any five (5) consecutive charges on such battery.	Direct Measurement & Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.

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				Method	Y/N	Type C/I	
V.G.1.l	Restrictions	§2105.21.b.4	The permittee shall not operate, or allow to be operated Battery B coke ovens in such manner that emissions from the door areas of any coke oven exceed an opacity of 40% at any time 15 or more minutes after such oven has been charged.	Direct Measurement& Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.G.1.m	Restrictions	§2105.21.b.1, 2nd Consent Decree, Appendix 1, V.B.3.a and 5	The permittee shall not operate, or allow to be operated Battery B coke ovens in such manner that, at any time, there are visible emissions from more than five percent (5%) of the door areas of the operating coke ovens in such battery, excluding the two door areas of the last oven charged and any door areas obstructed from view. Compliance with the percent door leakage standard is to be determined in accordance with the inspection techniques described in Chapter 18, Section C of the Department's Source Testing Manual and Appendix 1, Paragraph B.	Direct Measurement& Records Review	Y	C	
V.G.1.n	Restrictions	§2105.21.c.1	The permittee shall not operate, or allow to be operated Battery B coke ovens in such manner that, at any time, there are visible emissions from more than one percent (1%) of the charging ports or charging port seals on the operating coke ovens of such battery.	Direct Measurement& Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.
V.G.1.o	Restrictions	§2105.21.d.1	The permittee shall not operate, or allow to be operated Battery B coke ovens in such manner that, at any time, there are visible emissions from more than four percent (4%) of the offtake piping on the operating coke ovens of such battery.	Direct Measurement& Records Review	Y	C	
V.G.1.p	Restrictions	§2105.21.e.5	The permittee shall not operate, or allow to be operated Battery B coke ovens in such manner that visible emissions from the transport of hot coke in the open atmosphere exceed ten percent (10%) opacity at any time.	Direct Measurement& Records Review	Y	C	
V.G.1.q	Restrictions	§2105.21.f.1	The permittee shall not operate, or allow to be operated, Battery B coke ovens in such manner that, at any time, emissions from the combustion stack serving such battery exceed a particulate concentration of 0.015 grains per dry standard cubic foot.	Direct Measurement& Records Review	Y	C	
V.G.1.r	Restrictions	Enforcement Order No. 161, July 23, 1990	The permittee shall install, operate, maintain and calibrate a continuous opacity monitoring system on the combustion stack serving Coke Oven Battery B.	Physical Inspection	Y	C	
V.G.1.s	Restrictions	§2105.21.f.3&4	The permittee shall not operate, or allow to be operated, B Battery coke ovens in such manner that, at any time, emissions from the combustion stack serving B Battery equal or exceed an opacity of 20% for a period or periods aggregating in excess of three (3) minutes in any 60 minute period; or equal or exceed an opacity of 60% at any time.	Direct Measurement& Records Review	Y	C*	Except as identified in the attached Deviation Reports as previously provided to the Department on July 29, 2014 and January 30, 2015.